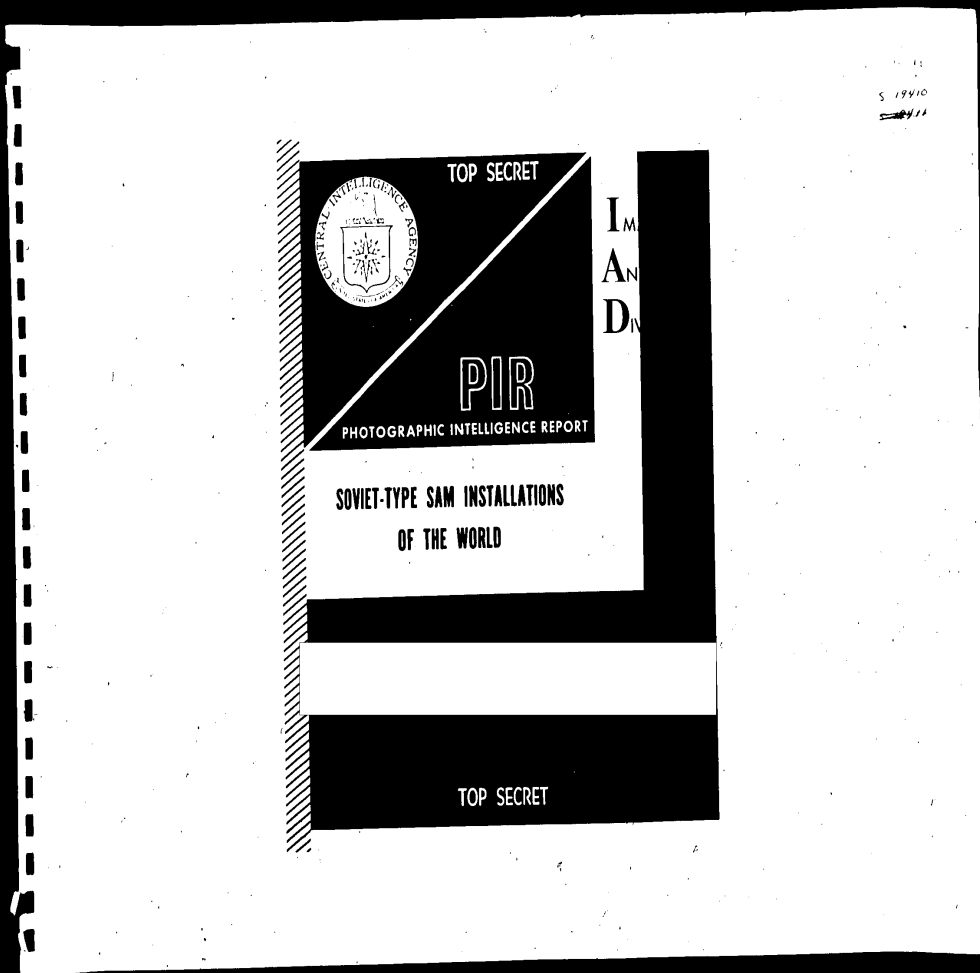
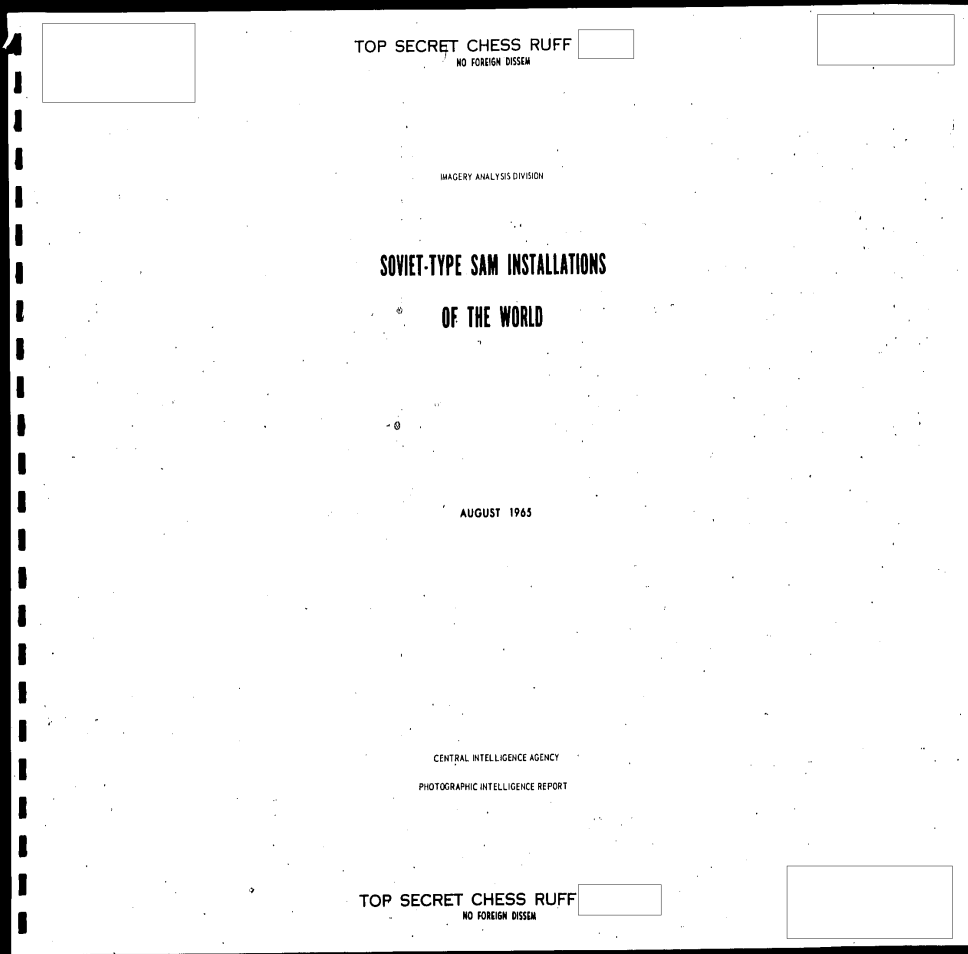


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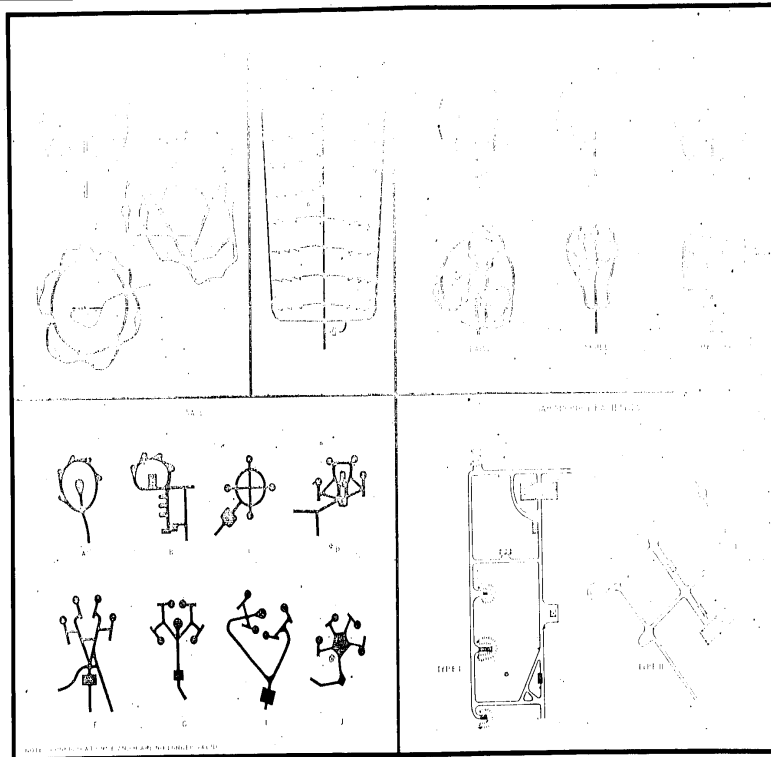


FIGURE 1. SAM INSTALLATION CONFIGURATIONS (NOT DRAWN TO COMMON SCALES).

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PREFACE

This report is prepared in response to CIA requirements G-RR4-82/056 through G-RR4-82/064. It presents locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations, and updates the existing series of reports on this subject. 1-8/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and un-

identified installations, possibly SAM related. The information is presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation cannot be determined, this is so indicated. Where no installations have been identified in a WAC area, that WAC has been omitted.

INTRODUCTION

This report presents information on Soviet-type SAM installations throughout the world and identified on photography. The cutoff date for this information is 1 January 1965.* In order to facilitate the recognition of additions to and deletions of SAM installations from the previous series of reports, 1-8/ new installations are shown in blue in the text, and installations which are no longer valid have blue lines drawn through them. New items are shown in blue on the graphics, and invalid ones have a blue "X" printed over them. The letter designating the SAM defense area on the table is repeated on the graphic for easier reference.

All photography referenced in the text is TOP SECRET RUFF or TOP SECRET CHESS except as otherwise cited beside the specific photo reference. DINAR information has frequently been used as background material in determining the composition and functions of the various SAM defense areas.

Diagrams of the configurations of the common types of SAM installations are presented in Figure 1. Figure 2 shows all the WAC areas, except Cuba, which are covered in this report, and Figure 3 shows Cuba. The specific WACs which are covered are shaded in red. Information for each WAC is shown in a table which gives detailed data; it faces a map which indicates the location and type of each SAM installation. Because of the volume

of data for several of the tables, the corresponding figures have been repeated for easier reference.

Explanations of the columnar headings used in the tables are as follows:

Item--Given in numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--In accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from Series 200 US Air Target Charts unless otherwise indicated in the next column.

Country & Map References--BE country codes used. Map reference is to the US Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 1.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted, and the classification of the photo reference if other than TOP SECRET RUFF or TOP SECRET CHESS.

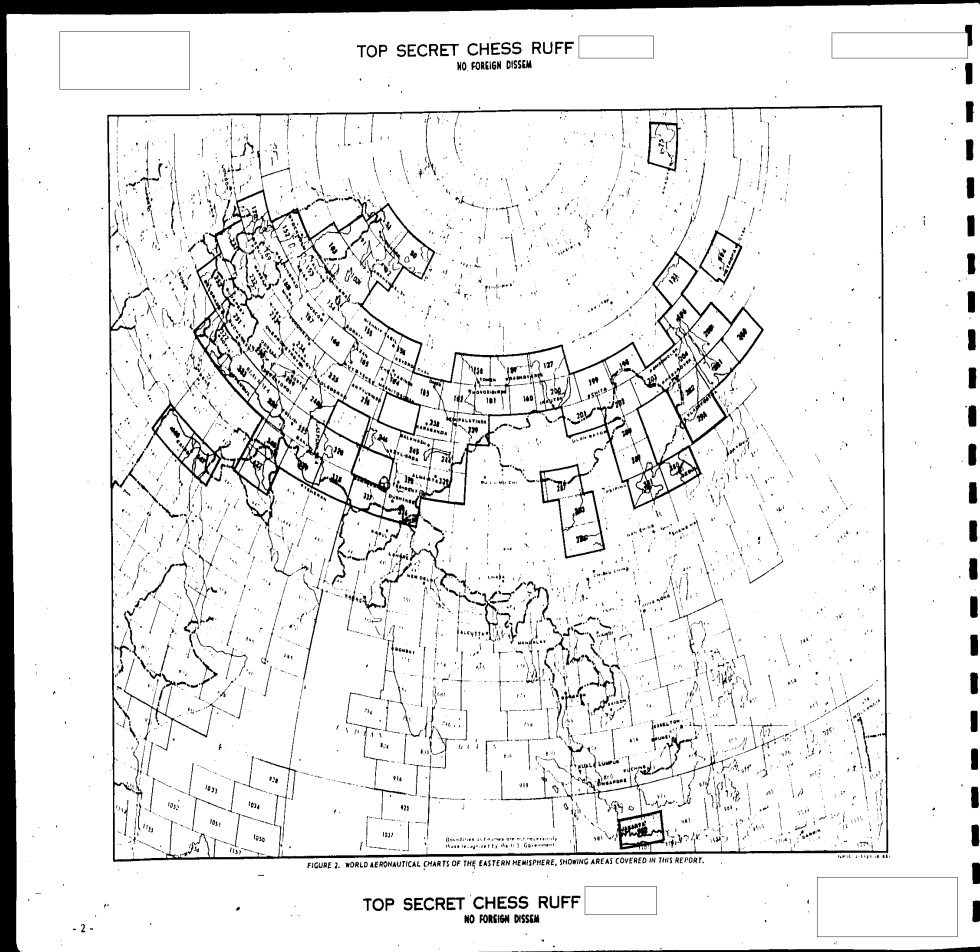
Mission & Date Installation Negated--Refers to the latest KEYHOLE photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined. Classification of the photo reference is indicated if it is other than TOP SECRET RUFF or TOP SECRET CHESS.

Remarks--Covers items of special or unusual interest.

*Included at the end of this report are a listing by WACs of additions and changes to installations in the body of this report from 1 January through 30 June 1965 and summaries, by WAC and by country, of all Soviet-type SAM installations identified on photography through 30 June 1965.

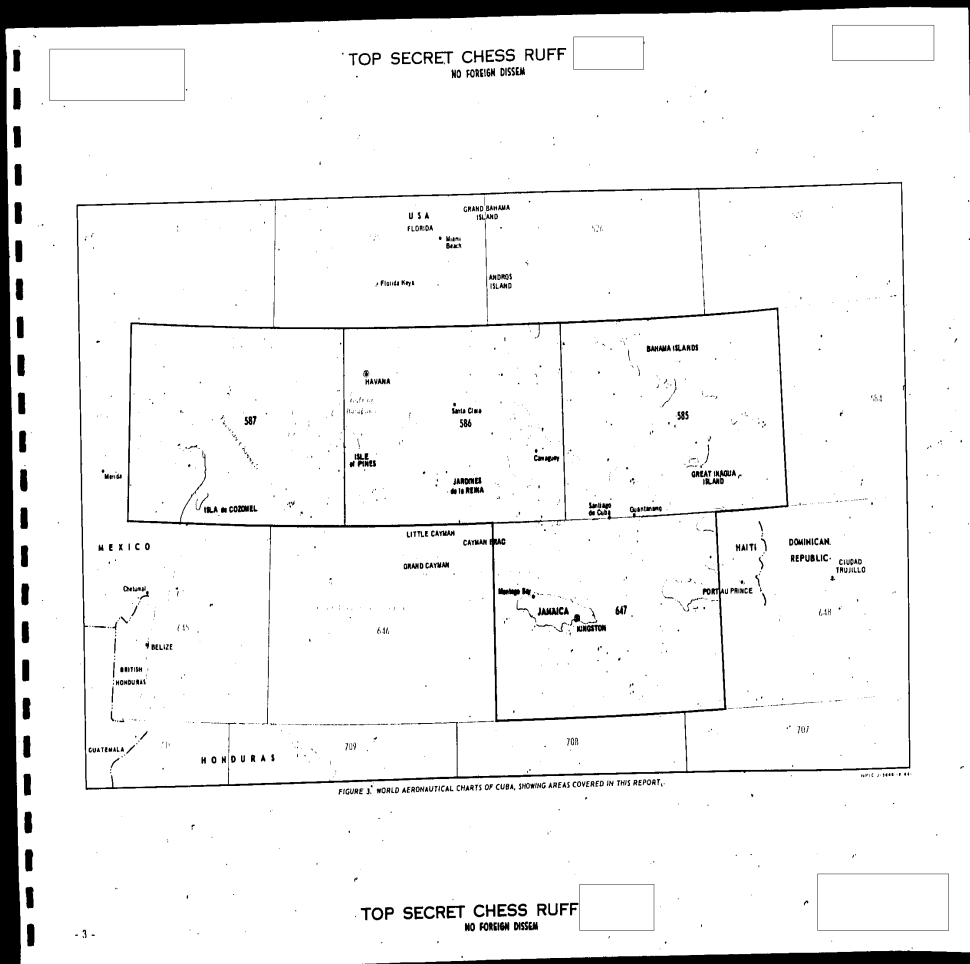
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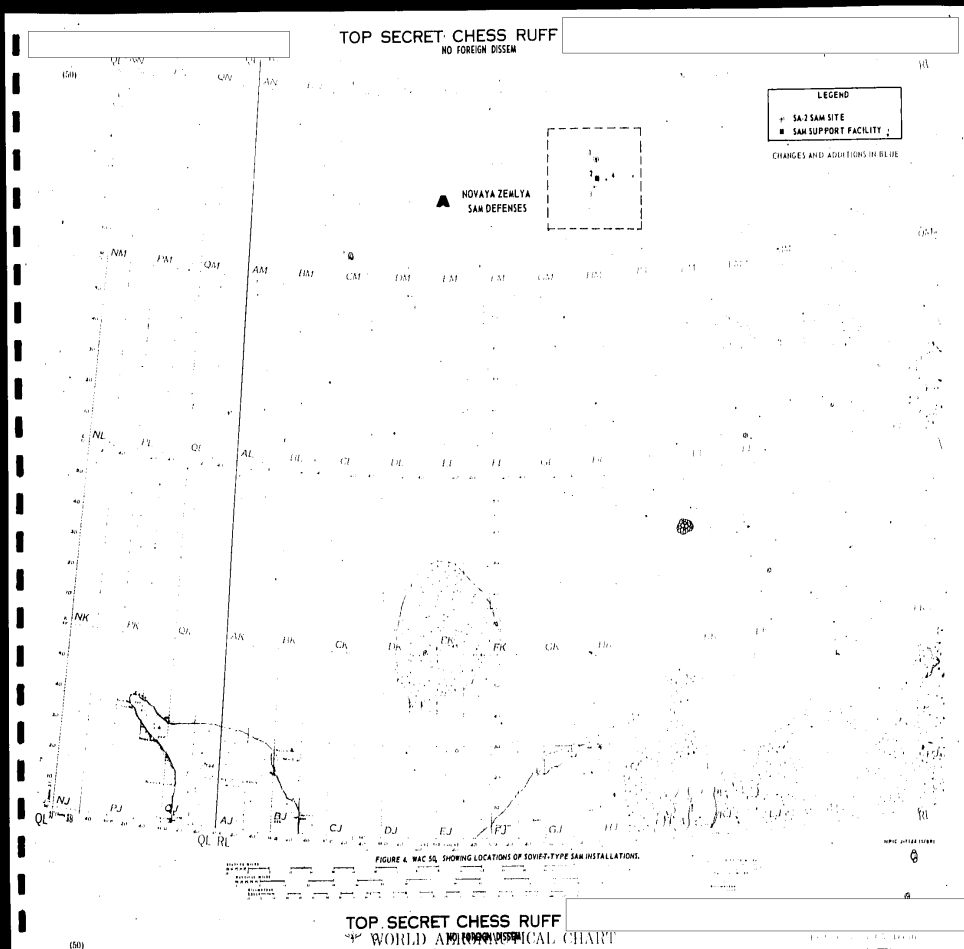


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Table 1. SAM Installations on WAC 40

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Suggested	Remarks
1	Belushya Guba SAM Site A38-1	71-41-00N 52-10-00E	UR 050-4	SA-2, probable fan	0056, Jun 65	0010, Jul 61	
2	Belushya Guba SAM Support Facility	71-50-00N 52-25-00E	UR 050-4	Type II (square)	0056, Jun 65	0010, Jul 61	

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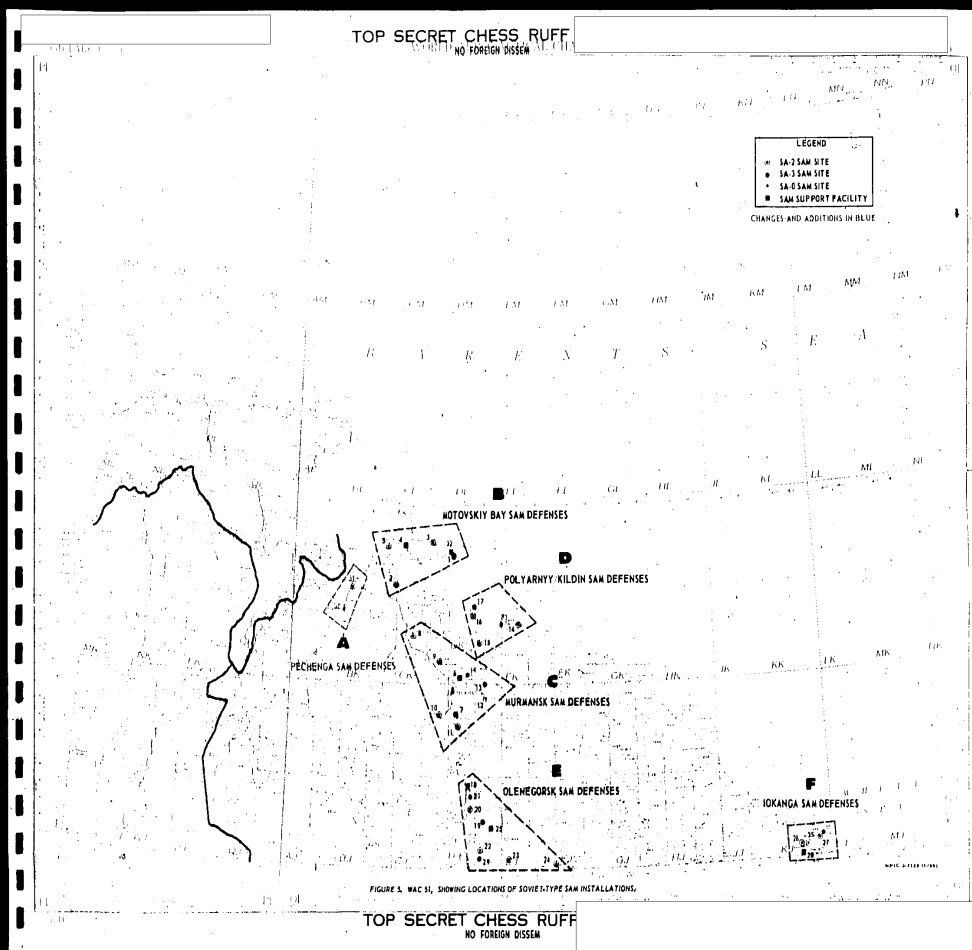
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Table 2. SAM Installations on WAC 61

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
B. Motovskiy Bay SAM Defenses (in defense of Litsa Bay Naval Base, Naval Missile Storage Area, and Naval Facilities in the Motovskiy Bay Area)							
1	Pechenga SAM Site D10-2	69-42-20N 32-02-20E	UR 031-13	SA-2, probable link			
2	Pechenga SAM Site B10-2	69-31-30N 31-57-15E	UR 031-17	SA-2, probable link			
3	Pechenga SAM Site D10-2	69-46-00N 32-36-30E	UR 031-13	SA-2, link			
4	Pechenga SAM Support Facility	69-44-50N 32-06-30E	UR 031-12	Type II (square)			
5	Pechenga SAM Site B10-2	69-44-00N 31-49-30E	UR 031-12	SA-2, link			
C. Murmansk SAM Defenses (in defense of Murmansk complex including naval bases and airfields)							
6	Murmansk SAM Support Facility	69-02-20N 33-14-30E	UR 031-18	Type I (rectangle)			
7	Murmansk SAM Support Facility	69-30-00N 33-08-00E	UR 031-18	Type II (square)			
8	Murmansk SAM Site C22-2	69-15-52N 32-19-30E	UR 031-17	SA-2, link			
9	Murmansk SAM Site B33-2	69-06-45N 32-48-10E	UR 031-18	SA-2, probable link			Strongly resembles Murmansk B10-6, an SA-2 SAM Site.
10	Murmansk SAM Site B23-2	69-56-20N 32-46-00E	UR 031-18	SA-2, star			
11	Murmansk SAM Site B17-2	69-46-30N 33-11-20E	UR 031-23	SA-2, link			
12	Murmansk SAM Site B10-6	69-36-00N 33-41-00E	UR 031-18	SA-2, category I			
13	Murmansk SAM Site B10-3	69-09-30N 33-36-30E	UR 031-18	SA-2, configuration A			This site, although carried as an SA-2, has 5 definite positions and a faint sixth position, all probably unrotated, located along a circular track. It closely resembles those unrotated SA-2 sites which were previously identified as Category 2, SA-2 SAM sites.

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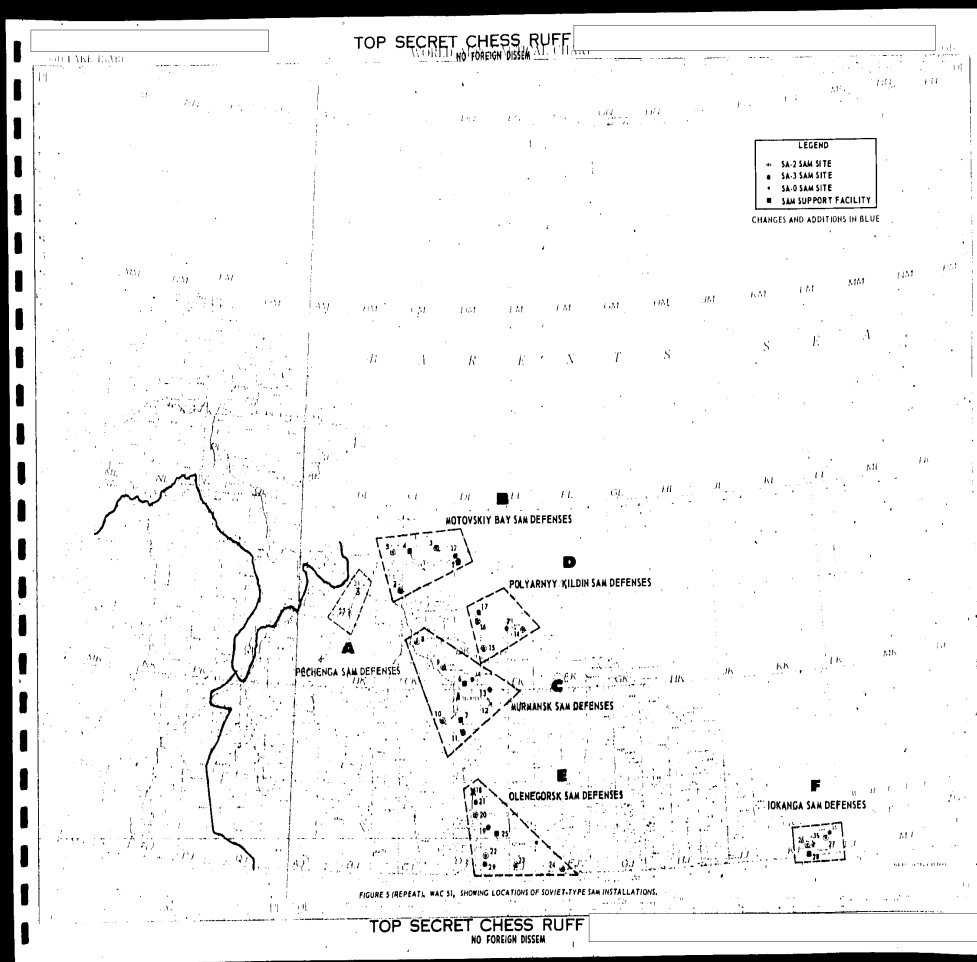
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Table 1. SAM Installations on WAC SI (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
D. Polynesian SAM Defenses (in defense of naval facilities at mouth of Kol-Kiy Gulf and on Kildin Island)							
14	Murmansk SAM Site B01-2	69-28-10N 34-16-10E	UR 051-18	SA-2, link			Has a small, secured support facility adjacent to the site. NPEC has targeted this as a separate SAM support facility, Type IV.
15	Murmansk SAM Site B01-2	69-14-15N 33-35-00E	UR 051-18	SA-2, link			A small support facility, located just west of the site, has been targeted as a separate SAM support facility, Type IV by NPEC.
16	Murmansk SAM Site C02-2	69-25-50N 33-28-30E	UR 051-18	SA-2, link			
17	Murmansk SAM Site C02-3	69-25-55N 33-30-00E	UR 051-18	SA-2, configuration undetermined			
31	Murmansk SAM Site B01-2	69-29-45N 34-06-00E	UR 051-18	SA-2, configuration undetermined			
E. Olenevsk SAM Defenses (in defense of Taybala DRBM Complex, Olenevsk Airfield)							
18	Olenevsk SAM Site B01-2	66-27-00N 33-25-00E	UR 051-23	SA-2, configuration C			This site was deleted as an SA-2 site on photographs. It has been identified as a maintenance station.
19	Olenevsk SAM Site B05-2	66-15-20N 33-26-30E	UR 051-23	SA-2, configuration C			
20	Olenevsk SAM Site B02-2	66-28-50N 33-28-30E	UR 051-23	SA-2, link			
21	Olenevsk SAM Site B02-2	66-22-10N 33-27-00E	UR 051-23	SA-2, configuration C			
22	Olenevsk SAM Site A11-2	66-06-30N 33-35-30E	UR 051-23	SA-2, link			Small unidentified facility located just east of this site. Unactivated site.
23	Olenevsk SAM Site B11-2	66-01-30N 34-08-00E	UR 051-23	SA-2, category 1			
24	Olenevsk SAM Site	66-01-00N 35-00-00E	UR 051-23	SA-2, configuration undetermined			
25	Olenevsk SAM Support Facility	66-13-00N 33-18-30E	UR 051-23	Type I (rectangular)			
26	Olenevsk SAM Site A11-2	66-05-30N 33-39-20E	UR 051-23	SA-2, configuration C			
F. Iokanga SAM Defenses (in defense of alternate submarine base)							
26	Iokanga SAM Site A33-2	68-01-10N 39-31-20E	UR 051-25	SA-2, link			Unactivated site.
27	Iokanga SAM Site A30-2	68-07-00N 39-47-50E	UR 051-25	SA-2, configuration undetermined			
28	Iokanga SAM Support Facility	68-03-00N 39-31-00E	UR 051-25	Type II (square)			A site configuration cannot be seen on this map. However, activity is present in the site area. A site configuration cannot be seen on Map 9017; however, the road leading to the site is visible.
29	Iokanga SAM Site A30-2	68-03-00N 39-31-43E	UR 051-25	SA-2, configuration undetermined			
30	Iokanga SAM Site A30-2	68-07-35N 39-18-00E	UR 051-25	SA-2, configuration undetermined			

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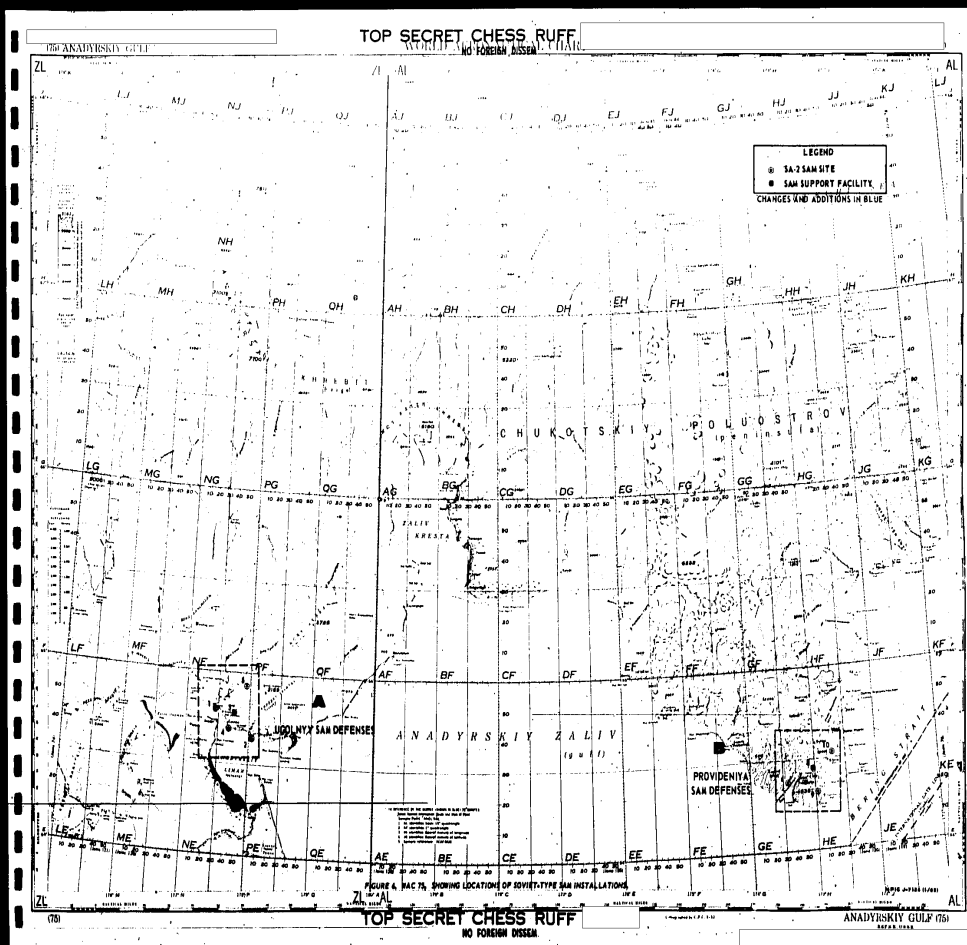
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Table 2. SAM Installations on WAC 78

Item	Name, Site Designator, & HE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appearance	Mission & Date Installation Suggested	Remarks
A Ugozoy SAM Defense (in defense of Ugozoy Nuclear Weapons Storage Site and MRBM Complex, and Andzyl Leninka Airfield)							
1	Ugozoy MRBM Complex SAM Site B2P-2	64-48-00N 177-28-00E	UR 075-18	SA-2, star			
2	Ugozoy MRBM Complex SAM Site A19-2	64-37-25N 176-00-30E	UR 075-22	SA-2, probable fan			
3	Andzyl SAM Support Facility	64-48-20N 177-45-45E	UR 075-18	Type II (square)			
4	Ugozoy MRBM Complex SAM Site A25-2	64-43-00N 177-26-30E	UR 075-21	SA-2, configuration undetermined			
				SA-2, configuration undetermined			
	Ugozoy SAM Site A102, 102-100000	64-45-00N 177-25-00E	UR 075-22	SA-2, configuration undetermined			
B Piondarya SAM Defense (in defense of Piondarya Uzbek Area, important military area opposite Ak-Ls, including port facilities, a large military airfield, and early warning radar post)							
6	Piondarya SAM Site A12-2	61-27-50N 175-26-10E	UR 075-24	SA-2, fan			
7	Piondarya SAM Site	61-25-00N 175-11-30E	UR 075-25	SA-2, configuration undetermined			
8	Piondarya SAM Support Facility	61-26-50N 175-00-00E	UR 075-25	Type II (square)			
9	Piondarya SAM Site B12-2	61-18-00N 175-00-00E	UR 075-25	SA-2, fan			
10	Piondarya SAM Site B12-2	61-11-00N 175-42-00E	UR 075-25	SA-2, configuration undetermined			

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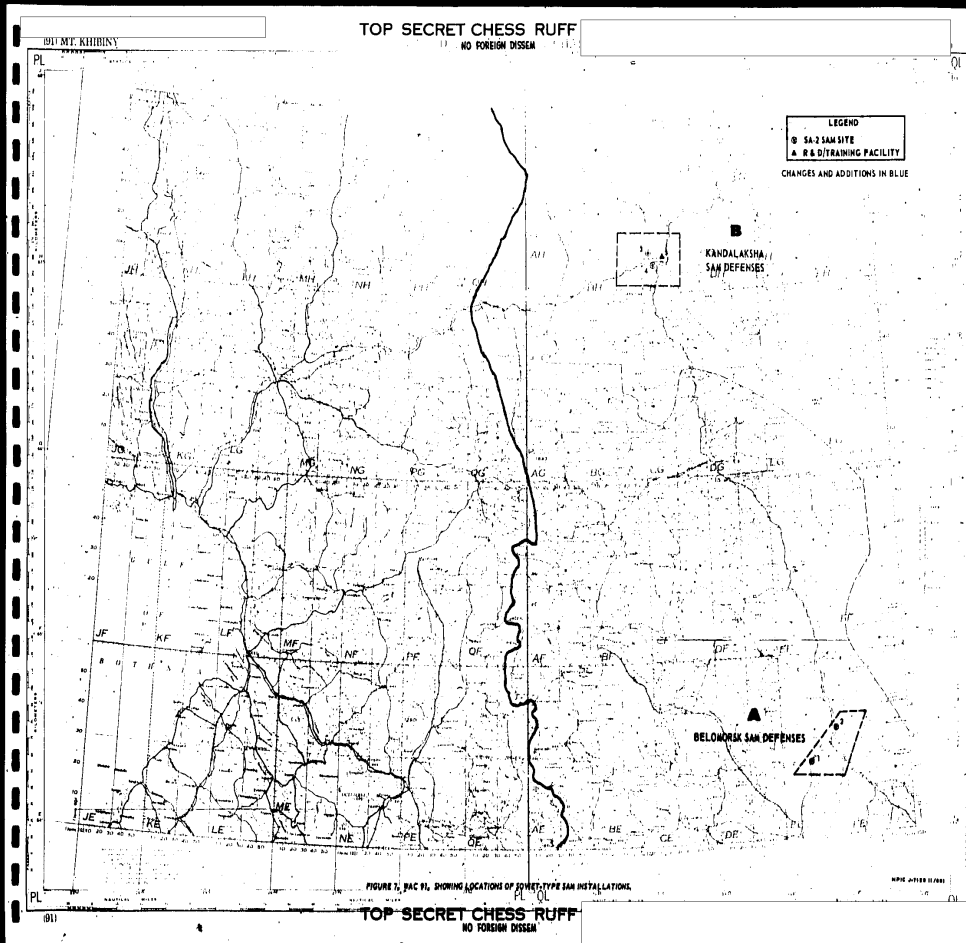
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Table 4. SAM Installations on KAC 91

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Bolnisek SAM Defenses (probably in defense of Bolnisek IIRBM Complex, and town complex)							
1	Bolnisek SAM Site B25-2	64-46-03N 34-21-55E	UR 091-25	SA-2, link			
2	Bolnisek SAM Site A10-2	64-31-00N 34-31-40E	UR-091-25	SA-2, link			
B Kandakakha SAM Defenses (in defense of Kandakakha Area, major rail and port center on the White Sea, alumina and aluminum plant)							
3	Kandakakha SAM Site A30-2	67-12-45N 32-07-30E	UR 091-4	SA-2, configuration undetermined			This site is in the early stages of construction on
4	Kandakakha SAM Site A20-2	67-06-30N 32-41-40E	UR 091-0	SA-2, configuration undetermined			This site is in the early stages of construction on
5	Kandakakha SAM Training Area A33-2	67-11-20N 32-22-30E	UR 091-0	See remarks			This training area consists of 2 SA-2 sites, each having 6 launch positions, and a SAM Support Facility. Configuration of the 2 installations cannot be determined due to irregular terrain. All 2 installations are complete.

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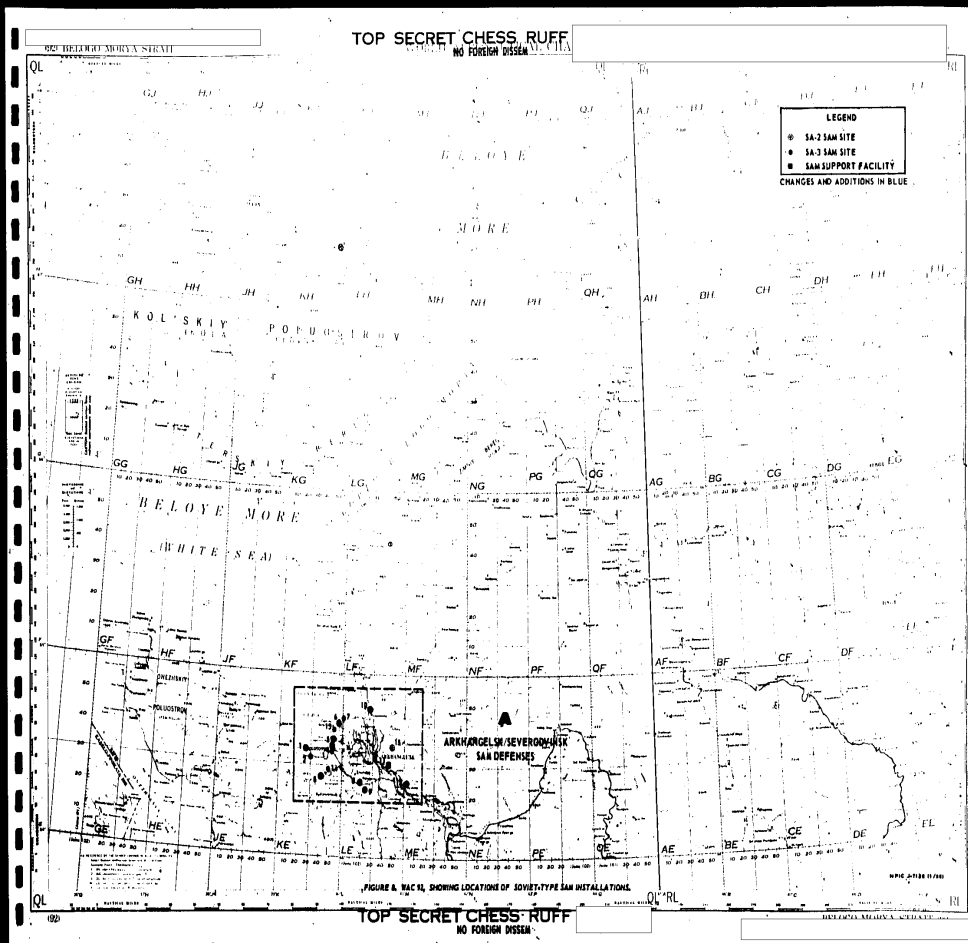
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Table 5. SAM Installations on WAC II

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears ¹	Mission & Date Installation Negated ¹	Remarks
A Arkhangelsk/Severodvinsk SAM Defenses (in defense of the city complex and port facilities; the naval facilities at Severodvinsk and Arkhangelsk; and Arkhangelsk/Kholm Airfield. Headquarters of Northern Fleet Missile Test Complex is at Severodvinsk)							
1	Severodvinsk SAM Site B28-2	64-55-20N 39-25-00E	UR 082-22	SA-2, fan			
2	Severodvinsk SAM Site A37-3	64-53-40N 39-50-20E	UR 082-22	SA-2, configuration undetermined			
3	Severodvinsk SAM Site A30-2	64-28-00N 39-48-50E	UR 082-22	SA-2, fan			
4	Severodvinsk SAM Support Facility	64-37-00N 39-49-00E	UR 082-22	Type I (rectangle)			
5	Severodvinsk SAM Site A35-2	64-38-40N 39-49-30E	UR 082-22	SA-2, diary			
6	Severodvinsk SAM Site B29-2	64-45-35N 39-57-15E	UR 082-22	SA-2, diary			Small, fenced support facility connected with this site which probably also supports Severodvinsk SAM Site B29-2. SFC has targeted this as a separate SAM Support Facility, Type IV.
7	Severodvinsk SAM Site B29-3	64-46-10N 39-59-00E	UR 082-22	SA-2, configuration undetermined			
8	Arkhangelsk SAM Site B29-2	64-54-00N 40-19-10E	UR 082-22	SA-2, fan			
9	Arkhangelsk SAM Site B28-4	64-58-00N 40-19-40E	UR 082-22	SA-2, fan			
10	Arkhangelsk SAM Site B28-5	64-48-00N 40-27-00E	UR 082-22	SA-2, fan			Small, fenced support facility associated with this site. SFC has targeted this as a separate SAM Support Facility, Type IV.
11	Arkhangelsk SAM Support Facility	64-51-35N 40-14-30E	UR 082-22	Type II (square)			
12	Arkhangelsk SAM Site B19-2	64-54-00N 41-01-00E	UR 082-22	SA-2, fan			
13	Severodvinsk SAM Site A31-3	64-26-10N 39-51-00E	UR 082-22	SA-2, configuration undetermined			
14	Severodvinsk SAM Site A36-3	64-27-00N 39-45-10E	UR 082-22	SA-2, configuration undetermined			
15	Arkhangelsk SAM Site A37-2	64-55-45N 40-18-29E	UR 082-22	SA-2, configuration undetermined			

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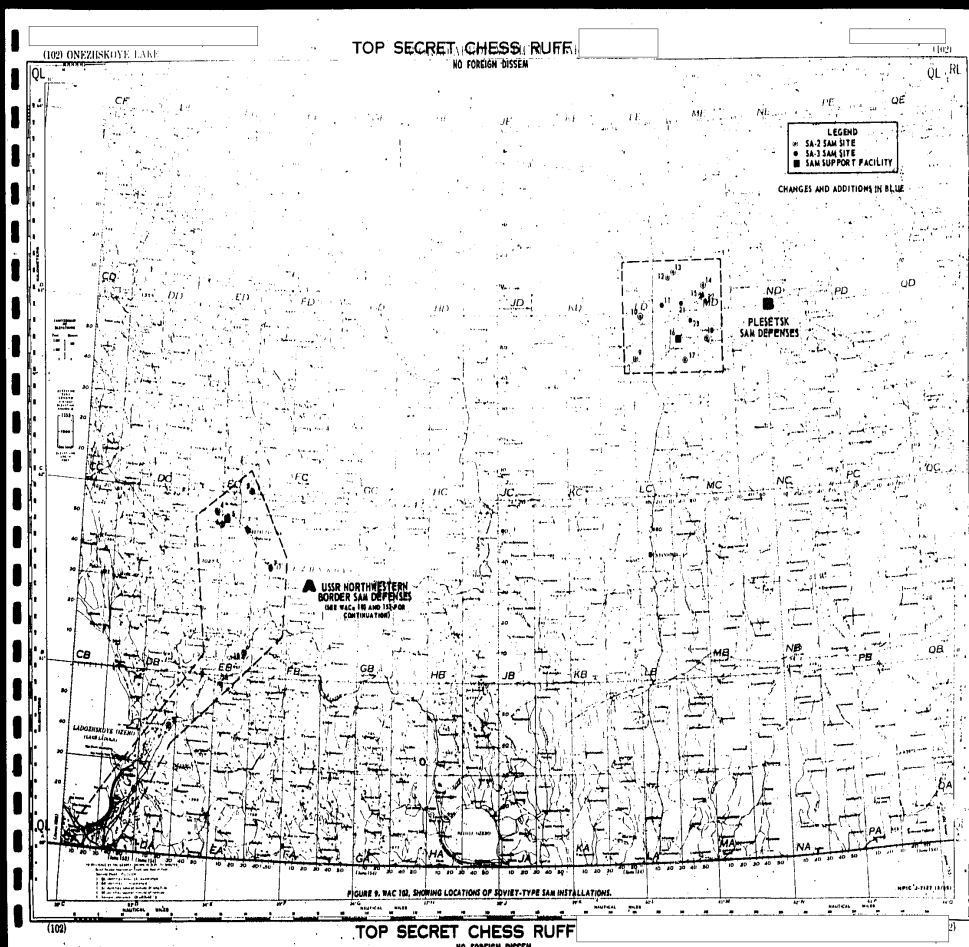
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Table 6. SAM Installations on KAC 102

Item	Summary, Site Designator, & RE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Apparent	Mission & Date Installation Negated	Remarks
A. USSR Northwestern Border SAM Defenses (in defense of the northwestern border of the USSR, and specifically, the Petropavlovsk city complex)							
1	Volkhov SAM Site 101-2	60-05-10N 32-20-10E	UR 0102-21	SA-2, link			
2	Volkhov SAM Site C91-2	60-10-00N 32-51-20E	UR 0102-21	SA-2, configuration undetermined			
3	Lodysynye-Pole SAM Site A25-2	60-40-31N 43-21-40E	UR 0102-21	SA-2, link			
19	Podporozhny SAM Site B03-2	61-40-20N 31-21-13E	UR 0102-10	SA-2, link			
20	Podporozhny SAM Site A10-2	60-50-25N 31-01-13E	UR 0102-16	SA-2, fan			
4	Petravodsk SAM Site B10-2	61-51-30N 33-51-00E	UR 0102-11	SA-2, fan			
5	Petravodsk SAM Support Facility	61-48-15N 34-01-30E	UR 0102-11	Type II (square)			
6	Petravodsk SAM Site A20-2	61-47-00N 34-03-00E	UR 0102-11	SA-2, daisy			
7	Petravodsk SAM Site B12-2	61-34-00N 34-14-00E	UR 0102-17	SA-2, link			
8	Petravodsk SAM Site B01-2	61-50-20N 34-14-20E	UR 0102-11	SA-2, daisy			
B. Plesetsk ICBM Complex SAM Defenses (in defense of Plesetsk ICBM Complex)							
9	Plesetsk ICBM Complex SAM Site C24-2	62-44-30N 40-01-20E	UR 0102-9	SA-2, fan			
10	Plesetsk ICBM Complex SAM Site B20-2	62-56-30N 40-00-30E	UR 0102-9	SA-2, fan			
11	Plesetsk ICBM Complex SAM Site A12-3	63-01-10N 40-22-00E	UR 0102-9	SA-4, configuration F			
12	Plesetsk ICBM Complex SAM Site B04-2	63-11-00N 40-33-30E	UR 0102-9	SA-2, unrevoked			This site is immediately north of Plesetsk ICBM Complex SAM Site B06-2. It was previously carried as a Category 1 SA-2 SAM Site.
13	Plesetsk ICBM Complex SAM Site B06-2	63-10-50N 40-34-00E	UR 0102-9	SA-2, probable daisy			
14	Plesetsk ICBM Complex SAM Site B08-2	63-08-10N 41-00-30E	UR 0102-9	SA-2, possible link			
15	Plesetsk ICBM Complex SAM Site B04A-2	63-03-35N 41-00-10E	UR 0102-9	SA-2, unrevoked			This site is immediately south of Plesetsk ICBM Complex SAM Site B06-2. It was previously carried as a Category 1 SA-2 SAM Site. This installation was deleted as a SAM Site on photography of KEITHLEY (J44 51). The site area has been abandoned and can no longer be distinguished.
16	Plesetsk ICBM Complex SAM Support Facility	62-48-25N 40-40-20E	UR 0102-9	Type I (rectangular)			
17	Plesetsk ICBM Complex SAM Site B17-2	62-45-25N 40-40-40E	UR 0102-9	SA-2, daisy			
18	Plesetsk ICBM Complex SAM Site B12-2	62-48-50N 41-00-00E	UR 0102-9	SA-2, chevron			
21	Plesetsk ICBM Complex SAM Site B03-3	63-03-00N 40-42-10E	UR 0102-9	SA-3, configuration A			
22	Plesetsk ICBM Complex SAM Site B05-3	63-04-20N 41-03-00E	UR 0102-9	SA-3, configuration F			
23	Plesetsk ICBM Complex Probable SA-2 SAM Site	62-57-30N 40-51-30E	UR 0102-9	SA-3, configuration A			

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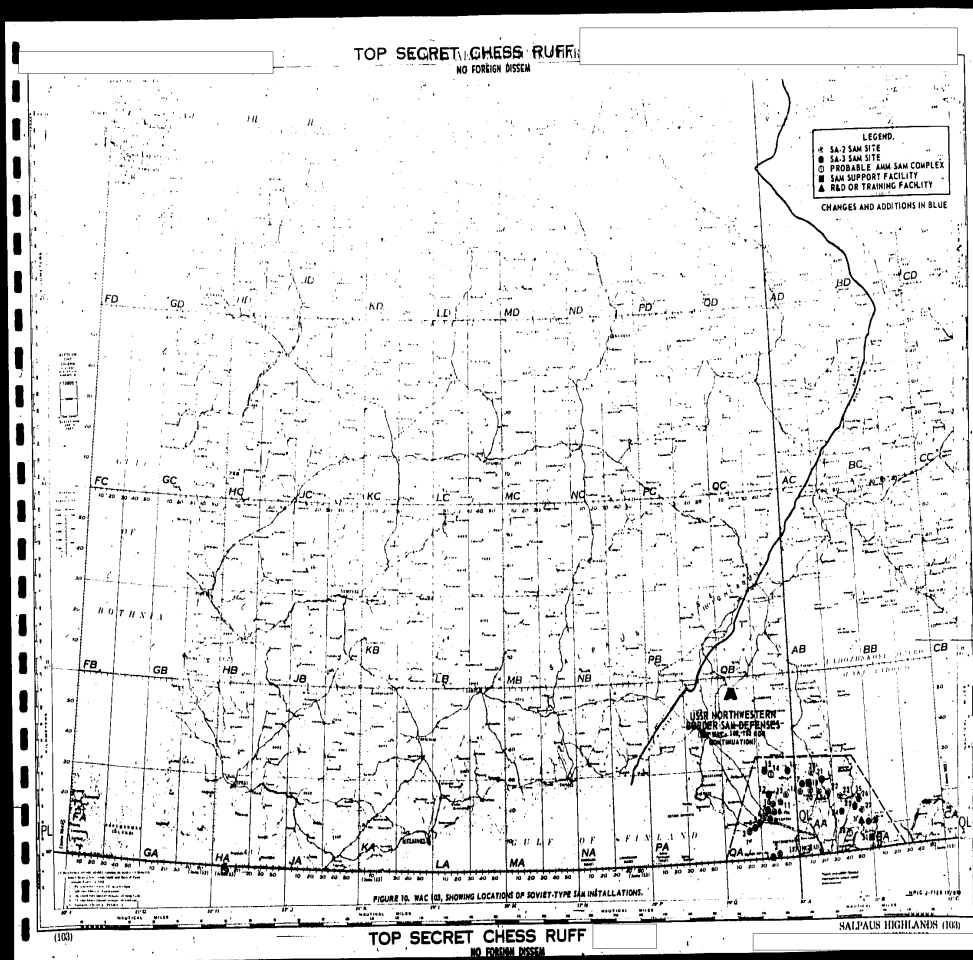
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Table 7. SAM Installations on WAC-103

Item	Name, Site Designator, & REF No.	Coordinates	Country & Map Ref	Type & Configuration	Version & Date First Appeared	Version & Date Installation Suggested	Remarks
USSR Northwestern Border SAM Defenses (in defense of the northwestern border of the USSR and Leningrad, second largest city in the USSR; major shipbuilding and naval facilities; airfields; and defense research, development, and production facilities)							
1	Leningrad SAM Site B29-3	60-01-30N 28-41-30E	UR 0103-25	SA-3, configuration G			
2	Leningrad SAM Site B29-2	60-01-30N 28-41-15E	UR 0103-25	SA-2, fan			
3	Leningrad SAM Site D30-2	60-10-00N 28-25-55E	UR 0103-24	SA-2, fan			
4	Leningrad SAM Site D30-3	60-10-00N 28-25-10E	UR 0103-21	SA-3, configuration G			
5	Leningrad SAM Site D31-2	60-12-55N 28-26-55E	UR 0103-21	SA-2, chevron			
6	Leningrad SAM Site C31-2	60-14-00N 28-31-55E	UR 0103-24	SA-2, fan			
7	Leningrad SAM Site C31-2	60-14-00N 28-31-15E	UR 0103-24	SA-3, category G			
8	Leningrad SAM Site C32-3	60-14-15N 28-40-00N	UR 0103-25	SA-2, fan			
9	Leningrad SAM Site C32-3	60-14-15N 28-42-30E	UR 0103-25	SA-2, fan			
10	Leningrad SAM Site C33-2	60-17-05N 28-43-10E	UR 0103-25	SA-2, chevron			
11	Leningrad SAM Site C33-3	60-16-50N 28-40-15E	UR 0103-25	SA-2, fan			
12	Leningrad SAM Site D32-3	60-20-10N 28-37-30E	UR 0103-25	SA-3, configuration G			
13	Leningrad SAM Site C34-2	60-20-15N 28-53-55E	UR 0103-25	SA-2, chevron			
14	Leningrad NK Probable AMU Launch Complex D34	60-27-15N 28-41-40E	UR 0103-25	See remarks			Construction at this complex was suspended early in 1963, following a probable change in concept, probably based on a decision to modify radically the associated electronic facilities. The original concept was a probable dual-function AMU SAM defense system. The major change in electronic facilities possibly indicates a switch to primary emphasis on a long range SAM role against air-breathing vehicles. Since this is not a unanimous conclusion of the intelligence community, and because the original AMU role cannot be ruled out, the complex is being carried as an AMU SAM installation.
15	Leningrad SAM Site D34-3	60-27-30N 28-44-00E	UR 0103-25	SA-3, configuration J			This SAM site is located within the security fence which surrounds Probable AMU Complex D34.
16	Leningrad SAM Site D35-3	60-28-00N 28-37-30E	UR 0103-25	SA-3, configuration J			
17	Leningrad SAM Site C36-3	60-23-00N 28-08-00E	UR 0103-25	SA-3, configuration J			
18	Leningrad SAM Site C35-2	60-21-00N 28-08-40E	UR 0103-25	SA-2, fan			
19	Leningrad SAM Assembly and Support Facility No. 1	60-43-00N 30-11-10E	UR 0103-25	Missile assembly & storage facility			This is one of four such facilities at Leningrad.
20	Leningrad SAM Site C36-2	60-21-00N 30-18-05E	UR 0103-25	SA-2, chevron			
21	Leningrad SAM Site C31-3	60-24-20N 30-24-00E	UR 0103-25	SA-3, configuration J			
22	Leningrad SAM Site C31-2	60-26-00N 30-27-05E	UR 0103-25	SA-2, chevron			
23	Leningrad SAM Site C36-2	60-18-00N 30-26-50E	UR 0103-25	SA-2, fan			
24	Leningrad SAM Site C36-2	60-18-00N 30-27-00E	UR 0103-25	SA-3, configuration J			
25	Leningrad SAM Site C34-3	60-14-55N 30-52-20E	UR 0103-25	SA-3, configuration J			
26	Leningrad SAM Site C36-2	60-15-00N 30-52-00E	UR 0103-25	SA-2, fan			
27	Leningrad SAM Site C35-2	60-12-15N 30-34-40E	UR 0103-25	SA-2, chevron			
28	Leningrad NK Probable AMU Launch Complex B34	60-06-30N 30-44-45E	UR 0103-25	See remarks			Construction at this complex was suspended early in 1963, following a probable change in concept, probably based on a decision to modify radically the associated electronic facilities. The original concept was a probable dual-function AMU SAM defense system. The major change in electronic facilities possibly indicates a switch to primary emphasis on a long range SAM role against air-breathing vehicles. Since this is not a unanimous conclusion of the intelligence community, and because the original AMU role cannot be ruled out, the complex is being carried as an AMU SAM installation.
29	Leningrad SAM Site C36-3	60-07-40N 31-00-10E	UR 0103-25	SA-3, configuration J			This site could possibly serve as a training facility associated with the SA-2 and possible AMU training sites at C36.
30	Leningrad SAM Training Facility C36	60-07-10N 30-49-00E	UR 0103-25	Training facility			Consists of two SA-2 sites and a possible AMU training site (the latter first appeared in June 1963).
31	Leningrad SAM Assembly and Support Facility No. 2	60-08-00N 31-02-30E	UR 0103-25	Missile assembly & storage facility			This is one of four such facilities at Leningrad.
32	Leningrad SAM Site C36-3	60-01-00N 31-49-45E	UR 0103-25	SA-2, fan			
33	Leningrad SAM Site B36-2	60-27-15N 30-15-40E	UR 0103-25	SA-3, possible link			
34	Leningrad SAM Site C31A-2	60-21-45N 30-21-10E	UR 0103-25	SA-2, configuration undetermined			
35	Leningrad SAM Site C34A-2	60-14-00N 30-31-40E	UR 0103-25	SA-2, configuration undetermined			

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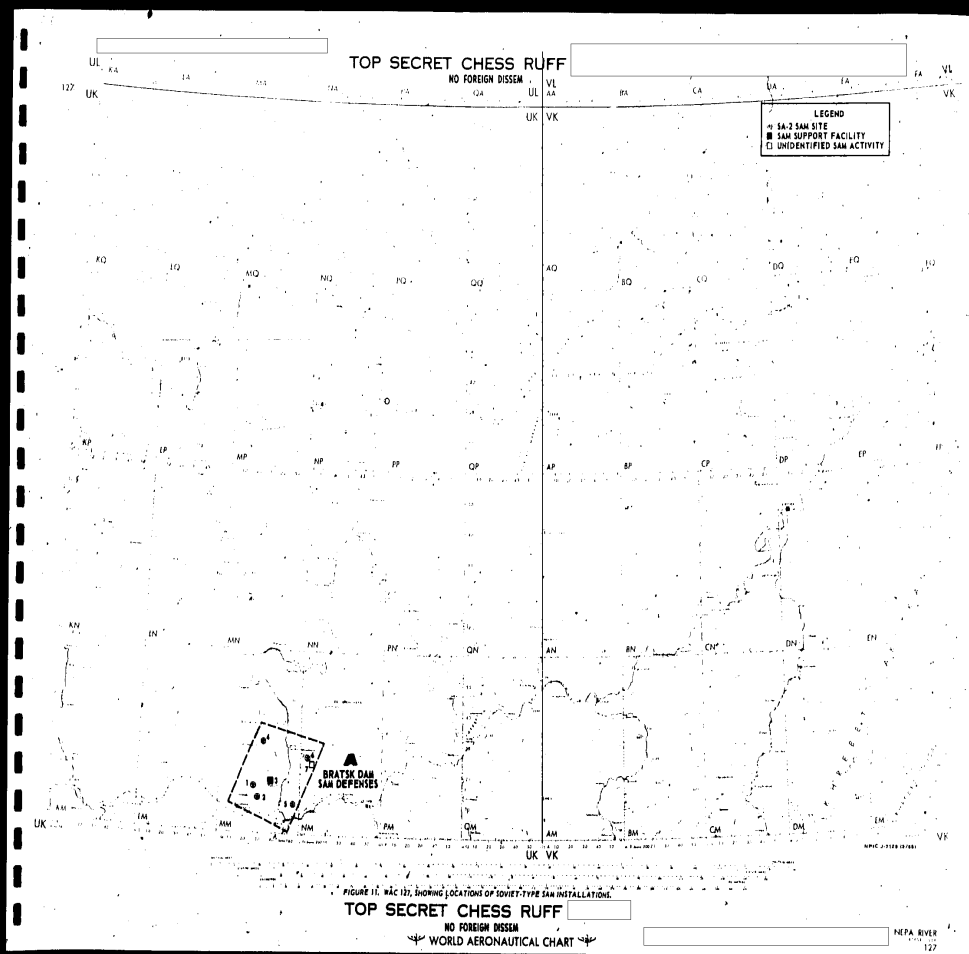
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Table 8. SAM Installations on WAC 127

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appraised	Mission & Date Installation Suggested	Remarks
1	Brak Dan SAM Site B31-2	56-14-00N 101-27-00E	UR 0127-22	SA-2, link			
2	Brak Dan SAM Site B31-3	56-12-30N 101-30-45E	UR 0127-22	SA-2, unrevetted			This site was previously carried as a category 2 SA-2 SAM site.
3	Brak Dan SAM Support Facility	56-17-20N 101-40-00E	UR 0127-22	Type 1 (rectangular)			
4	Brak Dan SAM Site C03-2	56-30-00N 101-35-10E	UR 0127-22	SA-2, probable link			
5	Brak Dan SAM Site A05-2	56-10-00N 101-58-15E	UR 0127-22	SA-2, link			
6	Brak Dan SAM Site C03-2	56-28-50N 102-06-30E	UR 0127-22	SA-2, link			This site, formerly called a category 2 SA-2 SAM site, consists of at least 2 probable positions (unrevetted) located along an irregular rail pattern.
7	Brak Dan SAM Site C03-2, 0127	56-24-40N 102-06-30E	UR 0127-22	See remarks			

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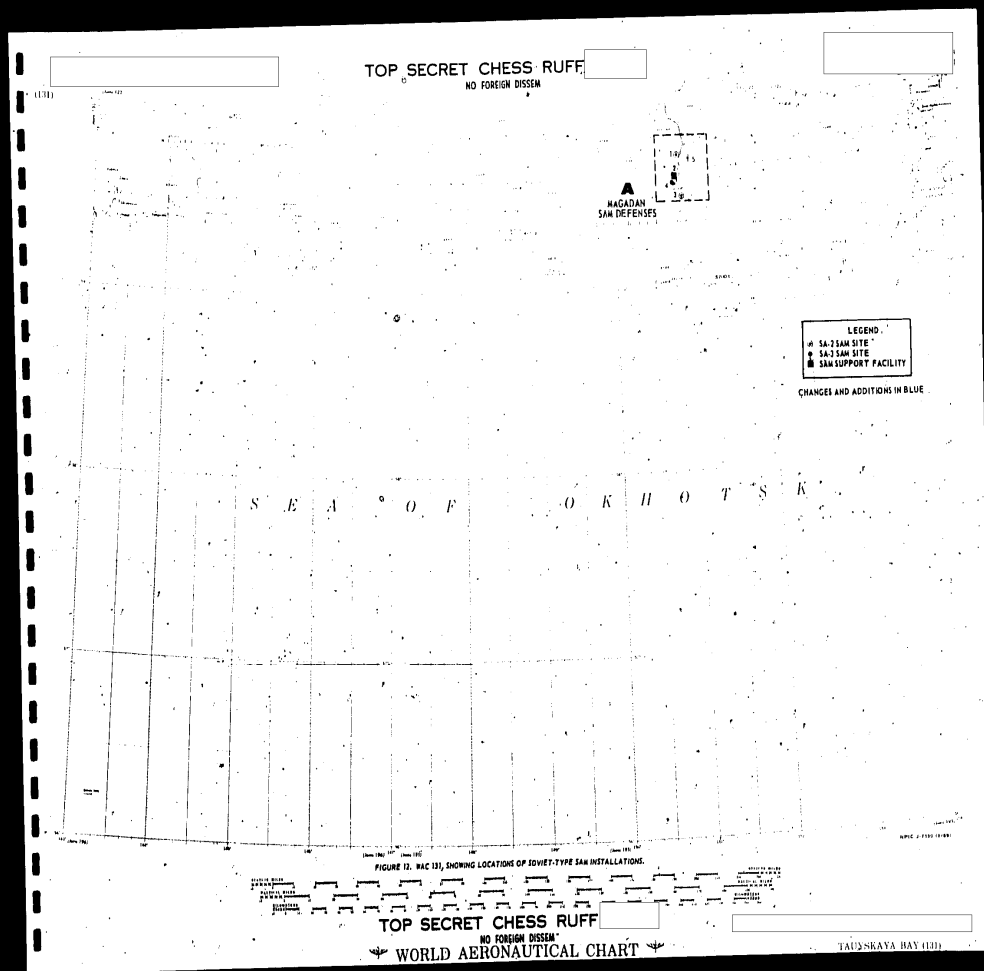
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Table 3. SAM Installations on WAC-131

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Reported	Remarks
1	Magadan SAM Defense (in defense of Magadan complex and port)	59-45-31N 150-32-10E	UR 0131-4	SA-2, elevation			
2	Magadan SAM Site B02-2	59-38-10N 150-46-30E	UR 0131-4	Type II (square)			
3	Magadan SAM Site A13-2	59-30-20N 150-35-30E	UR 0131-4	SA-2, link			
4	Magadan Possible SA-1 SAM Site	59-31-30N 150-11-20E	UR 0131-4	SA-2, configuration undetermined			
5	Magadan SAM Site B01-2, 0131-000G2	59-42-43N 150-50-12E	UR 0131-4	SA-2, modified elevation			

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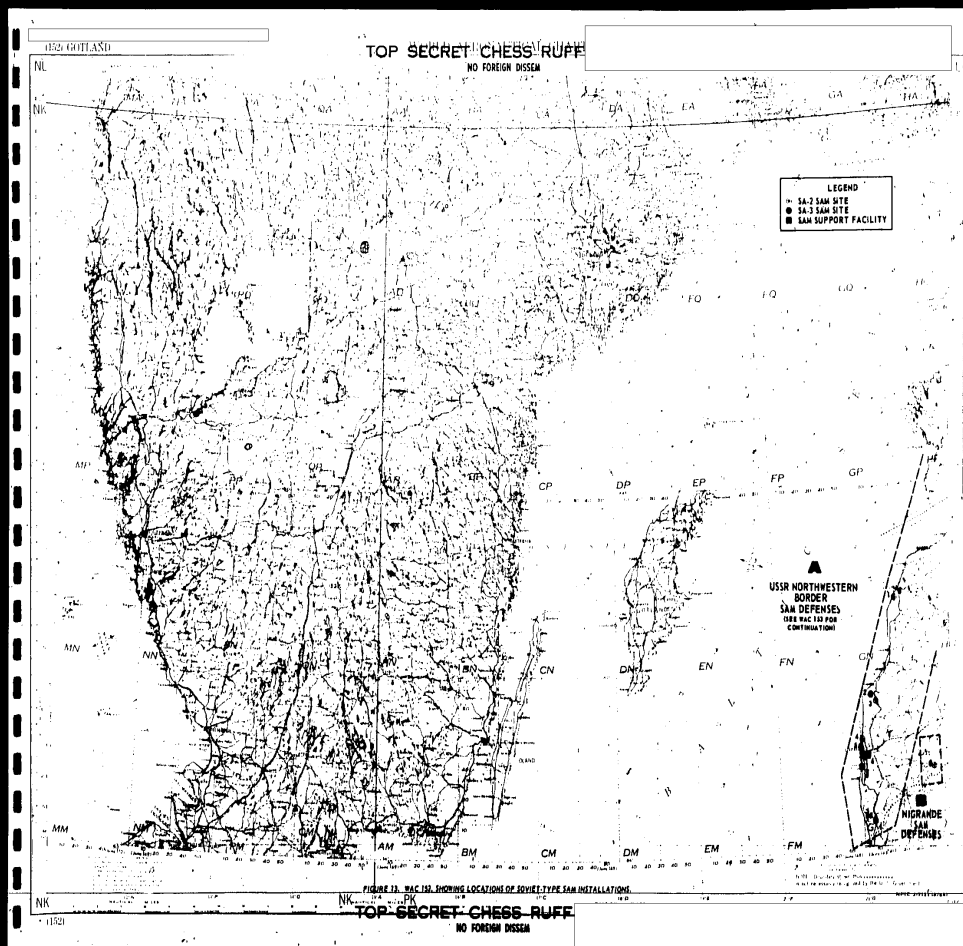
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Table 10. SAM Installations on WAC 152

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A UNSR Northwestern Border SAM Defenses (in defense of the northwestern border of the UNSR, and small town complexes at Lirupaja and Ventapile)							
1	Ventapile SAM Site A25-2	57-22-35N 21-31-10E	UR 0152-20	SA-2, link			
2	Lirupaja SAM Site C02-3	56-55-10N 21-10-00E	UR 0152-20	SA-3, configuration F			
3	Lirupaja SAM Site C02-2	56-55-30N 21-10-15E	UR 0152-20	SA-2, link			
4	Lirupaja SAM Site A01-2	56-35-20N 21-41-10E	UR 0152-25	SA-2, link			
5	Lirupaja SAM Site A36-3	56-33-30N 21-00-45E	UR 0152-25	SA-3, configuration G			
6	Lirupaja SAM Support Facility	56-31-30N 21-46-10E	UR 0152-25	Type (square)			
7	Lirupaja SAM Site A10-3	56-27-30N 21-40-30E	UR 0152-25	SA-3, configuration F			
8	Lirupaja SAM Site B01-3	56-06-52N 21-09-15E	UR 0152-25	SA-3, configuration F			
B Nigrando SAM Defenses (in defense of Nigrando IRBM Complex)							
9	Lirupaja SAM Site D11-2	56-25-10N 21-34-55E	UR 0152-25	SA-2, link			

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Table 11. SAM Installations on WAC 103

Item	Name, Site Designator, & DUE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
NOTE: Installations whose defense role cannot be determined, and which are not located within the limits of a SAM defense area, are found under subheading 2. "Defense Role Undetermined".							
UNSR Northwesterly Border SAM Defense (in defense of the northwestern border of the UNSR, and the following specific targets: Riasi MRBM Complex; Paldiski Naval Base; Hapsala town Complex; Tallinn town Complex and Naval Base; Rakvere MRBM Complex; Molokovskiy MRBM Complex; and Leningrad, second largest city in the UNSR, which contains major shipbuilding and naval facilities, airfields, and defense research, development, and production facilities)							
1	Kuressaare SAM Site C29-2	57-55-55N 22-04-10E	UR 0153-11	SA-2, link			
2	Kuressaare SAM Site A32-2	56-18-05N 22-19-00E	UR 0153-11	SA-2, link			
3	Kuressaare SAM Site B07-2	56-29-20N 22-14-00E	UR 0153-11	SA-2, category 1			
4	Hapsala SAM Site C31-2	56-24-50N 25-11-00E	UR 0153-6	SA-2, link			
5	Hapsala SAM Site A26-2	56-54-50N 25-26-45E	UR 0153-6	SA-2, link			
6	Tallinn SAM Site B27-2	59-21-50N 24-48-50E	UR 0153-1	SA-2, link			
7	Tallinn SAM Site A30-2	59-27-00N 24-28-15E	UR 0153-2	SA-2, link			
8	Tallinn SAM Site A25-2	59-30-10N 24-37-10E	UR 0154-2	SA-2, fan			
9	Tallinn SAM Support Facility	59-20-50N 24-47-10E	UR 0153-2	Type I (rectangular)			
10	Tallinn SAM Site A20-2	59-20-10N 24-25-00E	UR 0153-2	SA-2, link			
11	Tallinn SAM Site C06-2	59-27-50N 25-29-20E	UR 0153-2	SA-2, link			
12	Tapa SAM Site A21-2	59-11-20N 25-14-25E	UR 0153-7	SA-2, link			
13	Rakvere MRBM Complex SAM Site B35-2	59-22-50N 26-16-20E	UR 0153-2	SA-2, link			
14	Rakvere MRBM Complex SAM Site B06-2	59-21-10N 26-54-10E	UR 0153-3	SA-2, star			
15	Narva SAM Site A34-2	59-26-10N 26-06-40E	UR 0153-3	SA-2, link			
16	Molokovskiy MRBM Complex SAM Support Facility	59-32-10N 28-47-52E	UR 0153-4	Type II (square)			
17	Molokovskiy MRBM Complex SAM Site A29-2	59-38-10N 29-00-00E	UR 0153-4	SA-2, link			
18	Molokovskiy MRBM Complex SAM Site B29-2	59-32-40N 28-47-40E	UR 0153-4	SA-2, link			
19	Molokovskiy MRBM Complex SAM Site B35-2	59-39-30N 29-02-10E	UR 0153-4	SA-2, category 1			
20	Leningrad near site D01-2	59-31-50N 29-17-10E	UR 0153-4	SA-2, configuration G			
21	Leningrad SAM Site D06-2	59-07-50N 29-11-25E	UR 0153-4	SA-2, chevron			
22	Leningrad SAM Site C07-2	59-31-40N 29-26-40E	UR 0153-4	SA-2, fan			
23	Leningrad SAM Site C08-2	59-48-20N 29-17-00E	UR 0153-4	SA-2, configuration J			
24	Leningrad SAM Site C04-2	59-45-50N 29-28-00E	UR 0153-4	SA-2, configuration J			
25	Leningrad UN Probable AMM Launch Complex D03	59-45-00N 29-18-20E	UR 0153-4	See results			
26	Leningrad SAM Site C06-2	59-47-15N 29-39-10E	UR 0153-4	SA-2, chevron			
27	Leningrad SAM Site C06-2	59-45-50N 29-34-00E	UR 0153-4	SA-2, fan			
28	Leningrad SAM Site D04-2	59-37-30N 29-26-40E	UR 0153-4	SA-2, configuration J			
29	Leningrad SAM Site C06-2	59-45-50N 29-29-00E	UR 0153-4	SA-2, chevron			
30	Leningrad SAM Site C06-2	59-40-50N 29-27-53E	UR 0153-4	SA-2, fan			
31	Leningrad SAM Site C06-2	59-44-40N 29-49-40E	UR 0153-4	SA-2, configuration J			
32	Leningrad SAM Site C06-2	59-45-50N 29-45-10E	UR 0153-4	SA-2, fan			
33	Leningrad SAM Site C06-2	59-49-40N 29-37-30E	UR 0153-4	SA-2, fan			
34	Leningrad SAM Assembly and Support Facility No 4	59-41-50N 29-55-10E	UR 0153-4	Missile assembly & storage facility			
35	Leningrad SAM Site C01-4	59-40-50N 29-38-00E	UR 0153-4	SA-2, configuration J			
36	Leningrad SAM Site C01-4	59-40-50N 29-36-00E	UR 0153-4	SA-2, fan			
37	Leningrad SAM Site C06-2	59-40-50N 29-36-00E	UR 0153-4	SA-2, chevron			
38	Leningrad SAM Site C19-4	59-36-00N 29-15-00E	UR 0153-4	SA-2, fan			
39	Leningrad SAM Site C19-4	59-41-10N 29-28-00E	UR 0153-4	SA-2, chevron			
40	Leningrad SAM Site C17-2	59-40-50N 29-40-50E	UR 0153-4	SA-2, fan			

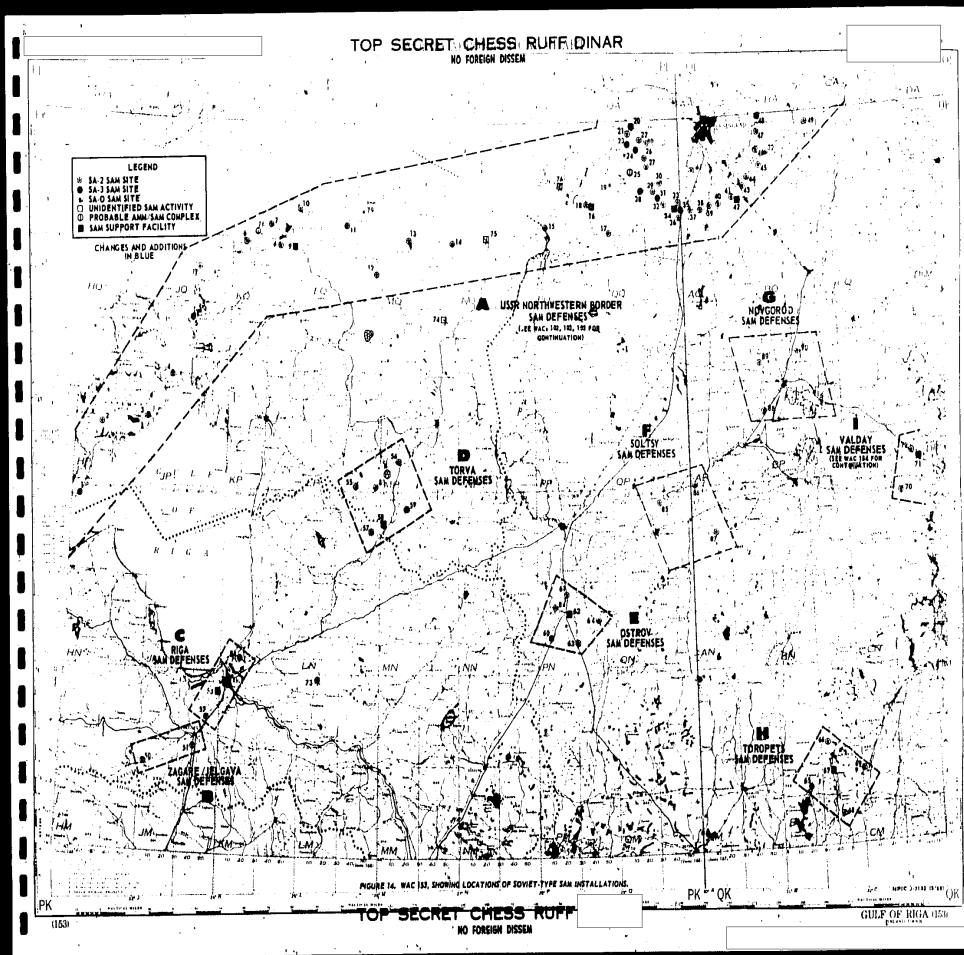
Construction of this complex was completed early in 1963, following a probable change in concept, probably based on a decision to modify radically the associated electronic facilities. The modification program is currently being implemented at the SA and SE complexes, where the major change in electronic facilities possibly indicates a switch with primary emphasis on a long-range SAM role against air-breathing vehicles. This modification program has not yet been initiated at this complex. As this is not a unanimous conclusion of the intelligence community, and because the original AMM role cannot be ruled out, the complex is being carried as an AMM SAM installation.

Believed to be a probable training facility, because of its location with respect to adjacent building area, and its orientation. This is 1 of 4 such facilities located at Leningrad.

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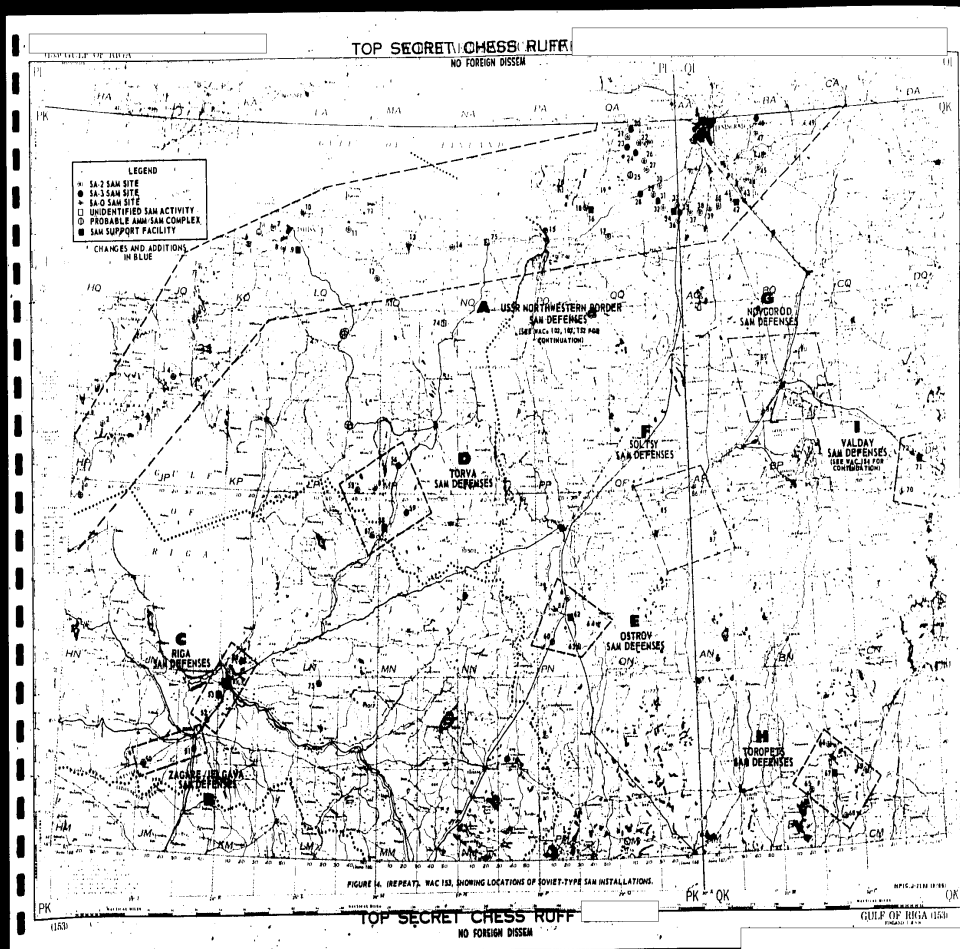
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Table 11. SAM Installations on WAC 151 (Continued)

Item	Name, Site Designator, & RE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Suggested	Remarks
41	Leningrad SAM Site C16-2	59-35-50N 30-41-45E	UR 0133-4	SA-2, chevron			This is 1 of 4 such facilities located at Leningrad.
42	Leningrad SAM Assembly and Support Facility No 9	59-34-50N 30-41-00E	UR 0133-4	Missile assembly and storage facility			
43	Leningrad SAM Site C15-2	59-36-50N 30-46-30E	UR 0133-5	SA-2, fan			
44	Leningrad SAM Site C14-2	59-39-25N 30-52-10E	UR 0133-5	SA-2, chevron			
45	Leningrad SAM Site C12-2	59-43-40N 31-04-00E	UR 0133-5	SA-2, fan			
46	Leningrad SAM Site C11-2	59-49-25N 31-05-40E	UR 0133-5	SA-2, chevron			
47	Leningrad SAM Site C10-2	59-54-45N 31-02-40E	UR 0133-5	SA-2, fan			
48	Leningrad SAM Site C08-2	59-58-40N 31-01-30E	UR 0133-5	SA-2, configuration 2			
49	Volkhov SAM Site B26-2	59-58-45N 31-45-50E	UR 0133-5	SA-2, link			
71	Bugul'skiy SAM Site B36-2	59-12-10N 24-31-10E	UR 0133-1	SA-2, configuration undetermined			This complex, along with a similar complex near Cherepovets, USSR, forms the beginning of a probable long-range SAM defense system.
72	Lalun SAM AAA Launch Complex	59-21-25N 28-18-30E	UR 0133-2	See remarks			
73	Talitsa SAM Site B09-2	59-31-30N 26-45-30E	UR 0133-2	SA-2, link			This site consists of 3 untested launch positions and a central guidance area. It is probably a training site.
74	Leningrad SAM Site	59-32-45N 26-31-30E	UR 0133-2	SA-2, see remarks			
81	Leningrad SAM Site A21-2	59-42-10N 30-06-15E	UR 0133-4	SA-2, configuration, undetermined			
82	Leningrad SAM Site C11-2	59-47-05N 31-07-30E	UR 0133-5	SA-2, star			
Zagorsk/Jelgava MRBM Complex SAM Defenses (probably in defense of Zagorsk MRBM Complex and Jelgava MRBM Complex)							
90	Jelgava SAM Site C20-2	56-28-00N 25-02-40E	UR 0133-21	SA-2, link			
91	Jelgava SAM Site A22-2	56-24-00N 25-38-15E	UR 0133-21	SA-2, star			
Riga SAM Defenses (in defense of Riga)							
92	Jelgava SAM Site A20-2	56-15-00N 25-48-30E	UR 0133-21	SA-2, link			has large circular revetment of unknown function is associated with this site.
93	Riga SAM Support Facility	56-04-32N 25-56-00E	UR 0133-16	Type 1 (rectangular)			
94	Riga SAM Site B03-2	57-05-45N 24-15-00E	UR 0133-17	SA-2, link			
Torva MRBM Complex SAM Defenses (in defense of Torva MRBM Complex)							
95	Torva MRBM Complex SAM Site B00-2	56-09-30N 25-09-20E	UR 0133-12A	SA-2, link			
96	Torva MRBM Complex SAM Site B02-2	56-10-00N 25-12-35E	UR 0133-12	SA-2, link			
97	Torva MRBM Complex SAM Site B04-2	57-47-45N 25-03-00E	UR 0133-13	SA-2, link			
98	Torva MRBM Complex SAM Support Facility	57-50-40N 26-02-30E	UR 0133-13	Type 1 (rectangular)			
99	Torva MRBM Complex SAM Site A10-2	57-54-45N 25-10-25E	UR 0133-12	SA-2, link			
100	Torva MRBM Complex SAM Site A22-2	56-02-10N 25-51-10E	UR 0133-12	SA-2, configuration undetermined			
Odnov/Donkhorvsk Airfield SAM Defenses (in defense of Odnov/Donkhorvsk Airfield)							
101	Odnov SAM Site A22-2	57-19-45N 26-10-10E	UR 0133-18	SA-2, fan			
102	Odnov SAM Site A20-2	57-26-00N 26-01-00E	UR 0133-18	SA-2, fan			
103	Odnov SAM Site A21-2	57-19-20N 26-20-30E	UR 0133-18	Type 1 (rectangular)			
104	Odnov SAM Site B15-2	57-10-00N 26-26-35E	UR 0133-18	SA-2, fan			
105	Odnov SAM Site B11-2	57-17-45N 26-06-00E	UR 0133-18	SA-2, category 1			
106	Odnov SAM Site B10-2	57-25-00N 26-15-30E	UR 0133-18	SA-2, star			
107	Odnov SAM Site A21-2	57-25-00N 26-15-30E	UR 0133-18	SA-2, star			
Selvy SAM Defenses (in defense of Selvy Airfield, a primary long-range bomber base, and a nuclear weapons storage site)							
108	Selvy SAM Site B24-2	57-15-30N 26-30-30E	UR 0133-14	SA-2, possible star			
109	Selvy SAM Site C20-2	56-00-00N 26-02-20E	UR 0133-14	SA-2, link			
110	Selvy SAM Site C10-2	57-44-00N 26-17-00E	UR 0133-14	SA-2, star			
Sonogard SAM Defenses (in defense of Sonogard Complex; light industry, rail and river port facilities, general military)							
111	Sonogard SAM Site B25-2	56-25-05N 26-20-20E	UR 0133-15	SA-2, fan			

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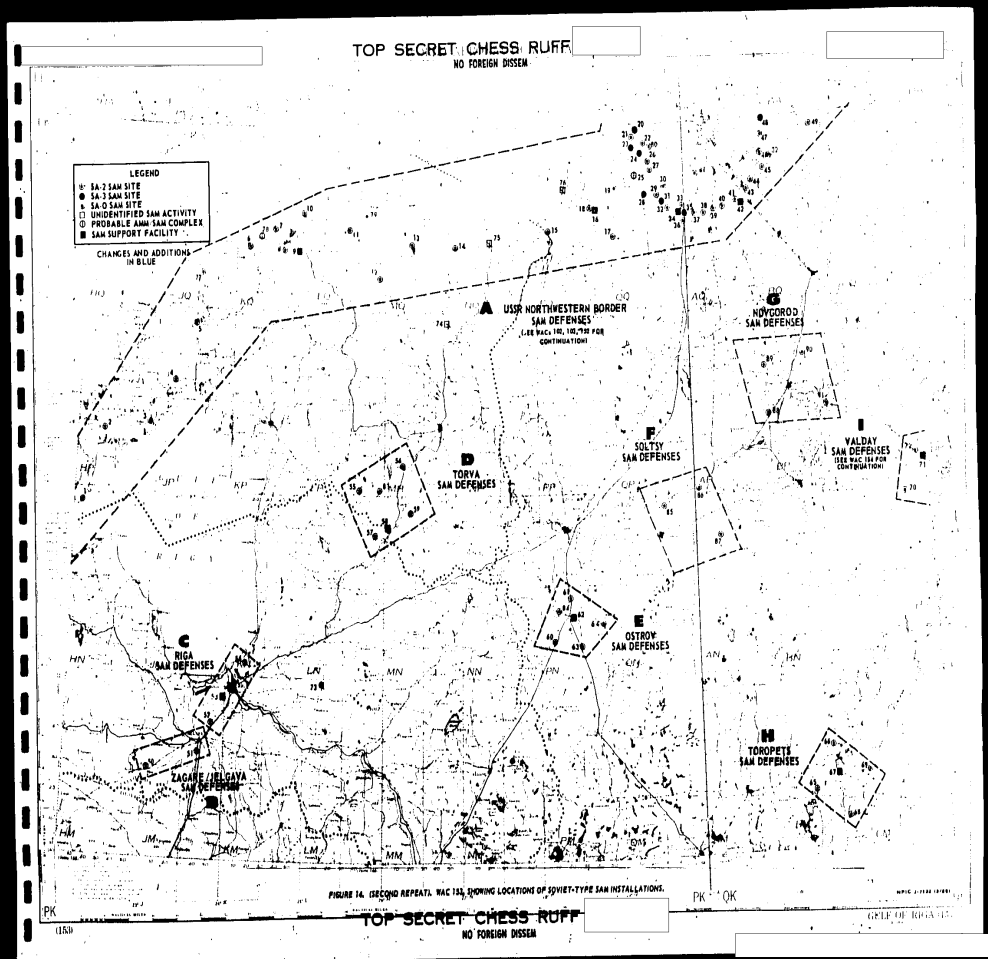
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Table II. SAM Installations on WAC 153 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date, First Approval	Mission & Date, Installation Requested	Remarks
90	Nonrad SAM Site B11-1	28-28-00N 106-22-00E	UR 0115-25	SA-2, fan			
91	Nonrad SAM Site B11-2	28-41-00N 110-22-00E	UR 0115-25	SA-2, fan			
92	Nonrad SAM Site B12-1	28-21-00N 111-12-00E	UR 0115-25	SA-2, fan			
Toropets Regional Military Storage Installation SAM Defenses (in defense of Toropets Regional Military Storage Installation)							
85	Toropets SAM Site B15-1	56-18-00N 31-29-00E	UR 0115-25	SA-2, link			
86	Toropets SAM Site A16-1	56-33-00N 31-25-00E	UR 0115-25	SA-2, link			
87	Toropets SAM Support Facility	56-24-00N 31-38-15E	UR 0115-25	Type II (square)			
88	Toropets SAM Site B18-1	56-10-41N 31-44-00E	UR 0115-25	SA-2, link			
89	Toropets SAM Site B19-1	56-24-00N 32-01-00E	UR 0115-25	SA-2, link			
Valdiki National Nuclear Weapons Stockpile Site SAM Defenses							
70	Yedovo KRM Complex SAM Site C28-2	57-54-00N 32-42-00E	UR 0115-15	SA-2, fan			
71	Yedovo KRM Complex SAM Support Facility	58-08-00N 32-58-00E	UR 0115-15	Type II (square)			
72	Yedovo KRM Complex SAM Site C28-2	58-06-00N 32-61-00E	UR 0115-15	SA-2, link			
Defense Role Undetermined							
73	Malpila SAM Site A11-8	56-36-00N 30-18-00E	UR 0115-17	SA-2, configuration undetermined			This site has seldom been seen, and the photography was of poor quality. This installation was deleted as a SAM site on photographic since it was no longer visible. This installation has been deleted as a suspect SAM site. It has been identified as a radar site. This installation has been deleted as a suspect SAM site. It has been identified as a radar site. This installation has been deleted as a suspect SAM site. It has been identified as a radar site.
74	Mostovo Suspect SAM Site, 0188-	56-50-00N 30-47-00E	UR 0115-8	Type unknown, hexagonal			
75	Jakvi Suspect SAM Site, 0188-	56-50-00N 30-47-00E	UR 0115-8	Type unknown, hexagonal			
76	Narva Suspect SAM Site, 0188-	56-50-00N 30-26-10E	UR 0115-8	Type unknown, hexagonal			

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Table 12. SIM Installations on WAC 155

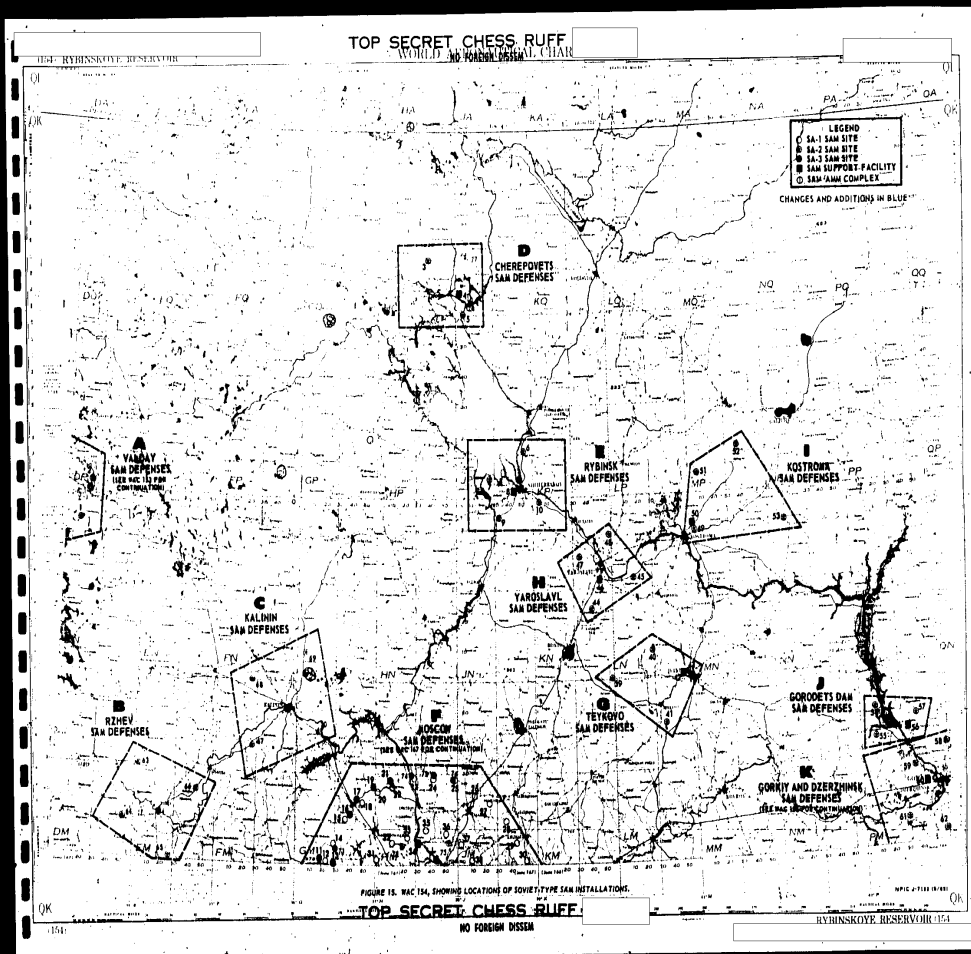
Item	Name, Site Designator, & RF No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Country & Date Installation Negated	Remarks
A Valdey SAM Defenses (in defense of Riihimäki: air defense zone headquarters, and a large military artillery)							
1	Yhdessä RIIH Complex SAM Site A28-2, [redacted]	57-50-05N 23-14-00E	UR 0154-11	SA-2, link			
2	Yhdessä RIIH Complex SAM Site B14-2, [redacted]	58-05-50N 23-18-00E	UR 0154-11	SA-2, star			
B Riihimäki SAM Defenses (in defense of Riihimäki: air defense zone headquarters, and a large military artillery)							
61	Riihimäki SAM Site B14-2, [redacted]	58-11-00N 23-09-00E	UR 0154-21	SA-2, link			
62	Riihimäki SAM Site B27-2, [redacted]	58-11-10N 23-13-00E	UR 0154-21	SA-2, configuration undetermined			
63	Riihimäki SAM Site B18-2, [redacted]	58-01-25N 23-29-00E	UR 0154-21	SA-2, configuration undetermined			
66	Riihimäki SAM Site B07-2, [redacted]	58-25-25N 23-17-50E	UR 0154-21	SA-2, link			
C Kalmar SAM Defenses (in defense of Kalmar: nuclear weapons storage site, large military airfield, important rail, industrial, and military center)							
67	Kalmar SAM Site B21-2, [redacted]	56-33-55N 15-24-20E	UR 0154-22	SA-2, link			
68	Kalmar SAM Site B11-2, [redacted]	57-08-55N 14-27-50E	UR 0154-17	SA-2, configuration undetermined			
69	Kalmar SAM Site B09-2, [redacted]	57-09-10N 16-05-50E	UR 0154-17	SA-2, posthole link			
70	Kalmar SAM Site B12-2, [redacted]	56-11-10N 16-14-15E	UR 0154-22	SA-2, link			
D Cherepovets SAM Defenses (in defense of Cherepovets: river port, transportation center, and large military combine)							
3	Cherepovets SAM Site B15-2, [redacted]	58-18-10N 37-35-25E	UR 0154-63	SA-2, link			
4	Cherepovets SAM Support Facility, [redacted]	58-07-50N 38-49-00E	UR 0154-64	Type II (diamond)			
5	Cherepovets SAM Site A15-2, [redacted]	58-00-00N 38-06-05E	UR 0154-64	SA-2, link			
72	Cherepovets SAM Site B05-2, [redacted]	58-18-20N 38-07-00E	UR 0154-63	SA-2, configuration undetermined			
75	Cherepovets SAM SAM Launch Complex, [redacted]	58-06-30N 38-10-00E	UR 0154-64	See remark			
E Rybinsk SAM Defenses (in defense of Rybinsk: shipbuilding and aircraft engine production, second largest hydroelectric power plant in USSR)							
6	Rybinsk SAM Site B19-2, [redacted]	58-15-00N 38-41-00E	UR 0154-15	SA-2, link			
7	Rybinsk SAM Site B20-2, [redacted]	58-08-00N 38-33-00E	UR 0154-15	SA-2, link			
8	Rybinsk SAM Support Facility, [redacted]	58-02-48N 38-43-00E	UR 0154-15	Type I (rectangular)			
9	Rybinsk SAM Site B23-2, [redacted]	57-58-00N 38-40-00E	UR 0154-15	SA-2, link			
10	Rybinsk SAM Site A19-2, [redacted]	57-58-30N 38-04-10E	UR 0154-15	SA-2, link			
F Moscow SAM Defenses (in defense of Soviet capital--largest city in USSR: major military, industrial, and research center)							
11	Moscow SAM Site E20-2, [redacted]	55-41-10N 38-19-00E	UR 0154-09	SA-4, configuration F			
12	Moscow SAM Site E20-2, [redacted]	55-41-10N 38-20-00E	UR 0154-09	SA-4, configuration F			
13	Moscow SA-3 SAM Training Facility, [redacted]	55-40-13N 38-08-05E	UR 0154-09	SA-4, configuration C Small forest phage			
14	Moscow SAM Site E21-1, [redacted]	55-47-51N 38-20-48E	UR 0154-09	SA-1, herringbone			
15	Moscow SAM Site E20-1, [redacted]	55-18-50N 38-37-03E	UR 0154-09	SA-1, herringbone			
16	Moscow SAM Site E20-1, [redacted]	55-18-00N 38-38-00E	UR 0154-09	SA-4, configuration G			
17	Moscow SAM Site E20-1, [redacted]	55-41-00N 38-16-00E	UR 0154-09	SA-4, configuration F			

This complex, along with a similar complex near Tallinn, forms the beginning of a probable long range SAM system.

The proximity of the launch site to surrounding buildings indicates that this is a training facility.

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Table 12. SAM Installations on R/R 144 (Continued)

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Apparent	Mission & Date Installation Negated	Remarks
F Moscow SAM Defenses (continued)							
18	Moscow SAM Site E23-1	56-20-00N 38-48-27E	UR 0154-22	SA-1, herringbone			This is 1 of the 4 SA-1 sites at Moscow which shows possible AMM associated activity.
19	Moscow SAM Site E24-3	56-25-35N 38-58-40E	UR 0154-22	SA-3, configuration F			
20	Moscow SAM Site E24-1	56-24-08N 37-00-32E	UR 0154-22	SA-1, herringbone			
21	Moscow SAM Site E25-3	56-27-21N 37-10-04E	UR 0154-22	SA-3, configuration F			
22	Moscow SAM Site E25-1	56-26-18N 37-10-43E	UR 0154-22	SA-1, herringbone			
23	Moscow SAM Site E26-1	56-26-54N 37-29-29E	UR 0154-23	SA-1, herringbone			
24	Moscow SAM Site E21-1	56-26-30N 37-41-40E	UR 0154-23	SA-1, herringbone			
25	Moscow SAM Site E22-1	56-26-20N 37-51-44E	UR 0154-23	SA-1, herringbone			
26	Moscow SAM Site E23-1	56-25-28N 36-11-20E	UR 0154-23	SA-1, herringbone			
27	Moscow SAM Site E24-1	56-20-07N 36-25-20E	UR 0154-23	SA-1, herringbone			
28	Moscow SAM Site E25-1	56-14-35N 36-23-05E	UR 0154-23	SA-1, herringbone			This is 1 of the 4 SA-1 sites at Moscow which shows possible AMM associated activity.
29	Moscow SAM Site E26-1	56-07-17N 36-43-14E	UR 0154-23	SA-1, herringbone			
30	Moscow SAM Site E27-1	56-01-07N 36-50-56E	UR 0154-23	SA-1, herringbone			
31	Moscow SAM Site C23-1	56-03-37N 37-00-38E	UR 0154-22	SA-1, herringbone			
32	Moscow SAM Site C24-1	56-07-14N 37-11-40E	UR 0154-22	SA-1, herringbone			
33	Moscow SAM Site C25-1	56-09-28N 37-28-13E	UR 0154-22	SA-1, herringbone			
34	Moscow SAM Storage Site	56-07-00N 37-29-00E	UR 0154-23	Missile assembly and storage plant			This is 1 of the 7 such facilities deployed around Moscow. It was formerly named "Yermolovskiy" storage site.
35	Moscow SAM Site C26-1	56-12-37N 37-30-13E	UR 0154-23	SA-1, herringbone			This site has a secured storage/support facility located in conjunction with it which consists of 9 large buildings.
36	Moscow SAM Site C29-1	56-10-00N 37-42-18E	UR 0154-23	SA-1, herringbone			
37	Moscow SAM Site C24-1	56-06-14N 36-00-48E	UR 0154-23	SA-1, herringbone			
38	Moscow SAM Site C25-1	56-01-00N 36-10-58E	UR 0154-23	SA-1, herringbone			
39	Moscow SAM Site C26-1	56-04-00N 36-21-00E	UR 0154-23	SA-1, herringbone			
40	Moscow SAM Site C27-1	56-06-10N 37-20-33E	UR 0154-22	SA-2, configuration F			The launch reverts to this site are square in departure from the normal configuration 3-associated with the SA-2 system.
41	Moscow SAM Site C28-1	56-07-25N 37-33-20E	UR 0154-23	SA-2, configuration F			The launch reverts to this site are square in departure from the normal configuration 3-associated with the SA-2 system.
42	Moscow SAM Site C29-1	56-07-25N 37-33-20E	UR 0154-23	SA-2, configuration F			
43	Moscow SAM Site E26-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
44	Moscow SAM Site E27-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
45	Moscow SAM Site E28-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
46	Moscow SAM Site E29-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
47	Moscow SAM Site E30-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
48	Moscow SAM Site E31-1	56-26-00N 37-56-20E	UR 0154-23	SA-3, configuration F			
G Teykovo ICBM Complex SAM Defenses (in defense of Teykovo ICBM Complex)							
49	Teykovo ICBM Complex SAM Site B29-1	57-00-40N 40-07-30E	UR 0154-19	SA-2, link			
50	Teykovo SAM Site B30-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
51	Teykovo SAM Site B31-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
52	Teykovo SAM Site B32-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
53	Teykovo SAM Site B33-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
54	Teykovo SAM Site B34-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
55	Teykovo SAM Site B35-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
56	Teykovo SAM Site B36-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
57	Teykovo SAM Site B37-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
58	Teykovo SAM Site B38-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
59	Teykovo SAM Site B39-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
60	Teykovo SAM Site B40-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
61	Teykovo SAM Site B41-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
62	Teykovo SAM Site B42-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
63	Teykovo SAM Site B43-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
64	Teykovo SAM Site B44-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
65	Teykovo SAM Site B45-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
66	Teykovo SAM Site B46-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
67	Teykovo SAM Site B47-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
68	Teykovo SAM Site B48-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
69	Teykovo SAM Site B49-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
70	Teykovo SAM Site B50-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
71	Teykovo SAM Site B51-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
72	Teykovo SAM Site B52-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
73	Teykovo SAM Site B53-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
74	Teykovo SAM Site B54-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
75	Teykovo SAM Site B55-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
76	Teykovo SAM Site B56-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
77	Teykovo SAM Site B57-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
78	Teykovo SAM Site B58-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
79	Teykovo SAM Site B59-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
80	Teykovo SAM Site B60-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
81	Teykovo SAM Site B61-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
82	Teykovo SAM Site B62-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
83	Teykovo SAM Site B63-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
84	Teykovo SAM Site B64-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
85	Teykovo SAM Site B65-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
86	Teykovo SAM Site B66-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
87	Teykovo SAM Site B67-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
88	Teykovo SAM Site B68-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
89	Teykovo SAM Site B69-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
90	Teykovo SAM Site B70-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
91	Teykovo SAM Site B71-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
92	Teykovo SAM Site B72-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
93	Teykovo SAM Site B73-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
94	Teykovo SAM Site B74-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
95	Teykovo SAM Site B75-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
96	Teykovo SAM Site B76-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
97	Teykovo SAM Site B77-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
98	Teykovo SAM Site B78-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
99	Teykovo SAM Site B79-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			
100	Teykovo SAM Site B80-1	57-09-18N 40-28-23E	UR 0154-19	SA-2, link			

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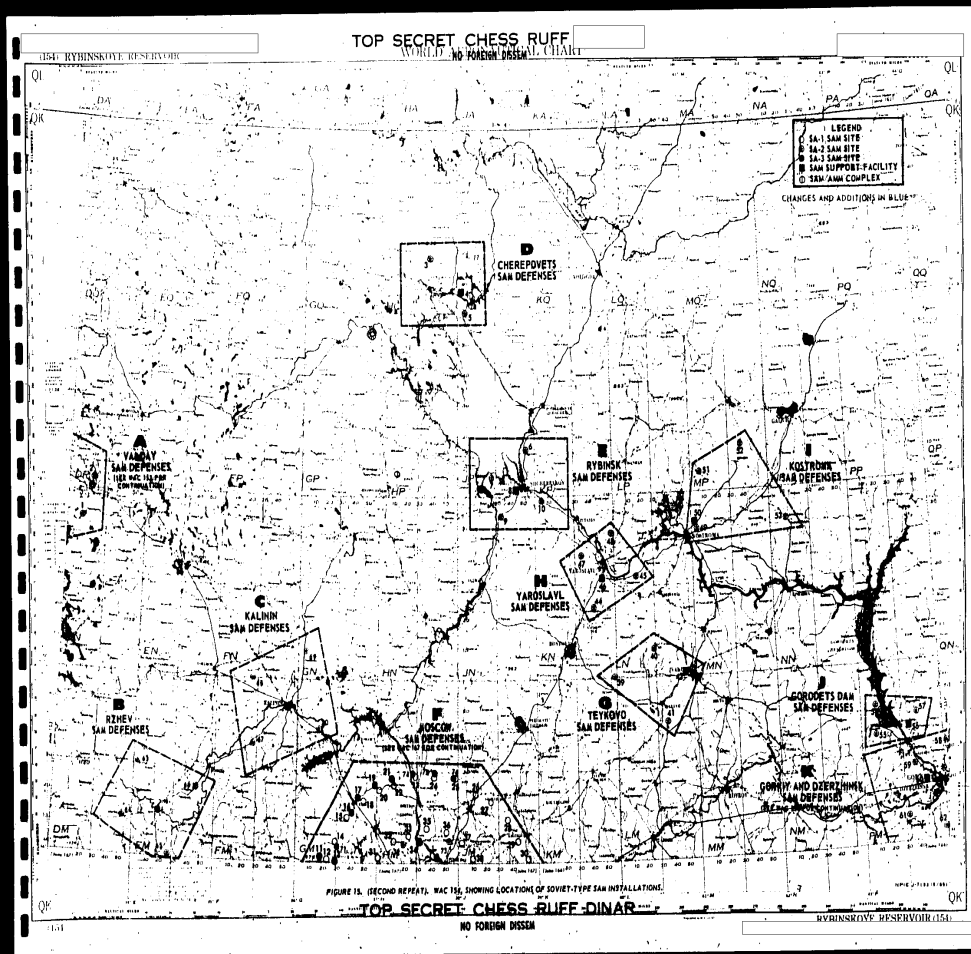
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Table 12. SAM Installations on WAF 154 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
K Kostroma ICBM Complex SAM Defense (in defense of Kostroma ICBM Complex)							
49	Kostroma ICBM Complex SAM Site B21-2	57-48-35N 41-05-05E	UR 0154-14	SA-2, link			
50	Kostroma SAM Support Facility	57-49-00N 41-09-30E	UR 0154-14	Type II (square)			
51	Kostroma ICBM Complex SAM Site A32-2	58-06-30N 41-05-30E	UR 0154-14	SA-2, link			
52	Kostroma ICBM Complex SAM Site B05-2	58-14-10N 41-38-35E	UR 0154-14	SA-2, link			
53	Kinoshma SAM Site C01-2	57-49-30N 42-11-40E	UR 0154-15	SA-2, link			
J Gorodets Dam Defense (in defense of Gorodets dam and hydroelectric power plant)							
54	Gorkiy SAM Site D52-2	56-44-00N 43-09-00E	UR 0154-25	SA-2, link			
55	Gorkiy SAM Site D51-2	56-35-00N 43-09-00E	UR 0154-25	SA-2, link			
56	Gorkiy SAM Support Facility 2	56-38-00N 43-03-00E	UR 0154-25	Type I (rectangular)			
57	Gorkiy SAM Site C55-2	56-42-00N 43-39-30E	UR 0154-25	SA-2, link			
K Gorkiy and Dzerzhinsk SAM Defense (in defense of Gorkiy and Dzerzhinsk area—largest chemical center in USSR: motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)							
58	Gorkiy SAM Site B01-2	56-31-40N 44-00-00E	UR 0154-25	SA-2, link			
59	Gorkiy SAM Site B31-2	56-25-00N 43-28-30E	UR 0154-25	SA-2, link			
60	Gorkiy SAM Support Facility 1	56-18-00N 43-44-00E	UR 0154-25	Type I (rectangular)			
61	Gorkiy SAM Site B04-2	56-09-00N 43-50-00E	UR 0154-25	SA-2, link			
62	Gorkiy SAM Site B18-2	56-08-45N 43-27-45E	UR 0154-25	SA-2, link			

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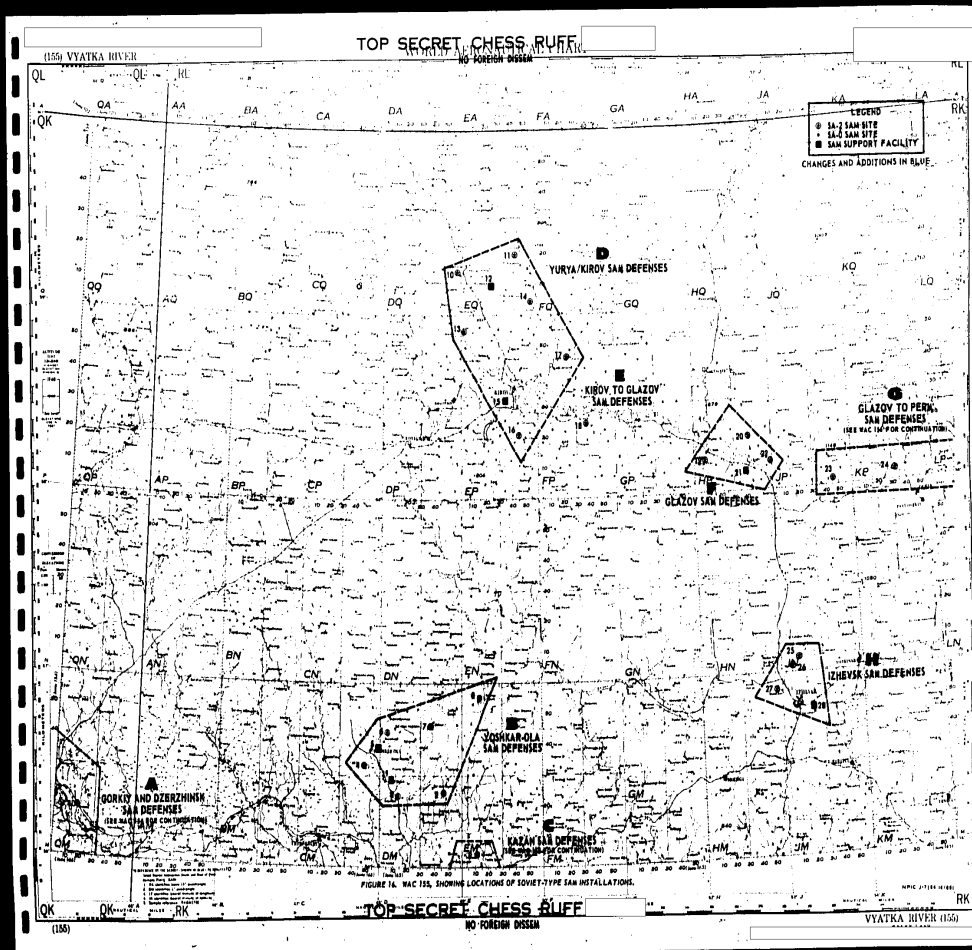
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Table 11. SAM Installations on WAF 155

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A Dnieper SAM Defenses (in defense of Dnieper and Dzerzhinsk area—largest chemical center in USSR: motor vehicle plant Gaz, PUL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)							
1	Dnieper SAM Site B11-2	56-16-15N 44-19-10E	UR 0155-21	SA-2, link			
B Yushkar-Ola ICBM Complex SAM Defenses (in defense of Yushkar-Ola ICBM Complex)							
2	Yushkar-Ola ICBM Complex SAM Site C12-2	56-21-50N 48-48-40E	UR 0155-23	SA-2, link			
3	Yushkar-Ola ICBM Complex SAM Site B18-0	56-23-00N 48-14-00E	UR 0155-22	SA-2, category 1			
4	Yushkar-Ola ICBM Complex SAM Site B27-2	56-33-00N 47-30-00E	UR 0155-22	SA-2, link			
5	Yushkar-Ola ICBM Complex SAM Support Facility	56-30-40N 47-59-10E	UR 0155-22	Type II (square)			
6	Yushkar-Ola ICBM Complex SAM Site B35-0	56-44-30N 48-06-00E	UR 0155-23	SA-2, category 1			
7	Yushkar-Ola ICBM Complex SAM Site C08-2	56-45-10N 48-36-00E	UR 0155-23	SA-2, star			
8	Yushkar-Ola ICBM Complex SAM Site D08-2	56-45-10N 48-14-20E	UR 0155-18	SA-2, link			This site is slightly removed from ICBM launch complex, and may represent the first indication of a barrier defense stretching between Yushkar-Ola and Kirov. This facility was not associated with surface-to-air missiles until KH photograph (Mar 61). In this high-resolution photograph, SA-2 equipment could be identified within the area.
9	Sank SAM Assembly and Storage Area	56-25-00N 48-00-00E	UR 0155-22	Missile assembly and storage facility			
C Kazan SAM Defenses (in defense of Kazan: aircraft parts, engines and airframes; optical equipment, explosives, synthetic rubber, and chemical production)							
9	Kazan SAM Site B01-2	56-05-40N 49-11-50E	UR 0155-23	SA-2, star			
D Yurya ICBM Complex/Kirov SAM Defenses (in defense of Yurya ICBM Complex and Kirov: tires, railroad cranes, aircraft parts, and agricultural equipment production; and metallurgical plants)							
10	Yurya ICBM Complex SAM Site B28-2	56-15-00N 48-58-00E	UR 0155-3	SA-2, link			
11	Yurya ICBM Complex SAM Site B04-2	56-30-00N 49-45-00E	UR 0155-3	SA-2, star			
12	Yurya ICBM Complex SAM Support Facility	56-10-10N 49-25-00E	UR 0155-4	Type II (square)			
13	Yurya ICBM Complex SAM Site B29-2	56-35-30N 49-05-45E	UR 0155-3	SA-2, star			
14	Yurya ICBM Complex SAM Site B12-2	56-05-05N 49-56-40E	UR 0155-4	SA-2, star			
15	Kirov SAM Support Facility	56-32-30N 49-35-00E	UR 0155-4	Type II (square)			
16	Kirov SAM Site B17-2	56-21-15N 49-46-45E	UR 0155-13	SA-2, star			
17	Kirov SAM Site C07-2	56-05-00N 50-21-00E	UR 0155-4	SA-2, star			
E Kirov to Glazov SAM Defenses (probable beginning of a barrier defense between Kirov and Glazov)							
18	Kirov SAM Site D12-2	56-04-20N 50-36-00E	UR 0155-9	SA-2, star			
F Glazov SAM Defenses (in defense of second largest Soviet atomic energy fuel materials plant)							
19	Glazov SAM Site B05-2	56-10-10N 50-10-00E	UR 0155-14	SA-2, star			This site, carried by NPG as a category 1 SA-2, does not display the configuration of a category 1 SA-2, but of a star configuration SA-2 SAM site.
20	Glazov SAM Site B07-2	56-18-30N 50-43-15E	UR 0155-14	SA-2, star			
21	Glazov SAM Support Facility	56-06-30N 50-40-00E	UR 0155-14	Type I (rectangle)			
22	Glazov SAM Site A08-2	56-09-05N 50-00-00E	UR 0155-13	SA-2, star			
G Glazov to Perm SAM Defenses (barrier defense between Glazov and Perm)							
23	Glazov SAM Site B10-2	56-09-30N 50-47-00E	UR 0155-15	SA-2, link			
24	Verezhchagino SAM Site A02-2	56-05-00N 50-24-00E	UR 0155-15	SA-2, link			
H Izhevsk SAM Defenses (in defense of large arm and machine equipment plant)							
25	Izhevsk SAM Site B01-2	57-04-31N 53-13-00E	UR 0155-20	SA-2, unverified			No service road pattern is visible at this site.
26	Izhevsk SAM Site B06-2	57-09-10N 53-08-00E	UR 0155-20	SA-2, link			
27	Izhevsk SAM Site A03-2	56-54-00N 53-27-00E	UR 0155-20	SA-2, link			
28	Izhevsk SAM Support Facility	56-48-40N 53-20-15E	UR 0155-20	Type I (rectangle)			

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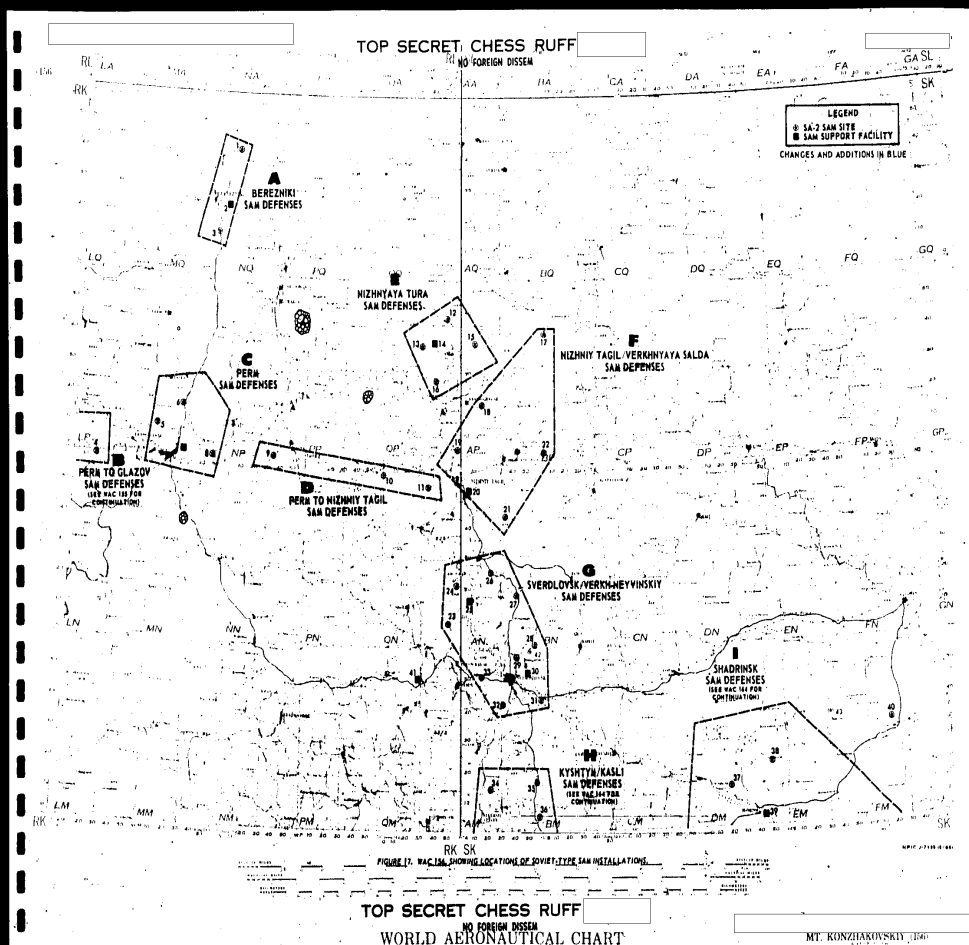
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Table 14. SAM Installations on WAC 115

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
Note: Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading 4-"Defensive Role Undetermined".							
A Berezni SAM Defenses (in defense of Berezni: large synthetic ammonia, magnesium, and basic chemical plants)							
1	Berezni SAM Site B05-2	50-41-50N 37-00-55E	UR 0150-1	SA-2, link			
2	Berezni SAM Support Facility	50-25-00N 36-52-00E	UR 0150-1	Type II (square)			
3	Berezni SAM Site A18-2	50-14-55N 36-44-15E	UR 0150-1	SA-2, link			
B Perm to Glazov SAM Defenses (barrier defense between Perm and Glazov)							
4	Perm SAM Site B21-2	58-00-00N 55-15-00E	UR 0150-11	SA-2, star			
C Perm SAM Defenses (in defense of Perm ICBM Complex and Perm: armaments and munitions ruminas, aircraft engine and assembly plants, chemical production, and missile static test facilities)							
5	Perm SAM Site B32-2	56-11-30N 56-01-30E	UR 0150-11	SA-2, link			
6	Perm SAM Site B01-2	56-16-00N 56-21-00E	UR 0150-11	SA-2, link			
7	Perm SAM Support Facility	56-02-00N 56-23-00E	UR 0150-11	Type I (rectangular)			
8	Perm SAM Site B10-2	56-01-00N 56-44-00E	UR 0150-11	SA-2, star			
D Perm to Nizhny Tagil SAM Defenses (barrier defense between Perm and Nizhny Tagil)							
9	Lysva SAM Site A25-2	58-02-00N 57-51-00E	UR 0150-12	SA-2, probable link			
10	Nizhny Tagil SAM Site B26-2	57-37-45N 56-56-30E	UR 0150-12	SA-2, probable star			
11	Nizhny Tagil SAM Site B27-2	57-52-15N 56-33-15E	UR 0150-12	SA-2, star			
E Nizhnyaya Tura AE Complex SAM Defenses							
12	Nizhnyaya Tura SAM Site B36-2	56-46-00N 50-47-00E	UR 0150-8	SA-2, star			
13	Nizhnyaya Tura SAM Site B28-2	56-38-00N 50-29-00E	UR 0150-8	SA-2, link			
14	Nizhnyaya Tura SAM Support Facility	56-40-25N 50-28-00E	UR 0150-8	Type I (rectangular)			
15	Nizhnyaya Tura SAM Site B09-2	56-40-00N 50-08-00E	UR 0150-8	SA-2, star			
16	Nizhnyaya Tura SAM Site B21-2	56-27-00N 50-20-00E	UR 0150-8	SA-2, star			
F Nizhny Tagil/Vorkhaysa Salda ICBM Complex SAM Defenses (in defense of Vorkhaysa Salda ICBM Complex and Nizhnyaya Salda steel plant; railroad freight car, armored combat vehicles, ingot steel, pig iron and coke production at Nizhny Tagil; and Vorkhaysa Salda aircraft parts plant)							
17	Vorkhaysa Salda ICBM Complex SAM Site D03-2	56-45-15N 61-42-15E	UR 0150-8	SA-2, star			
18	Vorkhaysa Salda ICBM Complex SAM Site B55-2	56-20-00N 60-19-00E	UR 0150-10	SA-2, star			
19	Nizhny Tagil SAM Site B36-2	56-03-45N 56-35-15E	UR 0150-13	SA-2, star			
20	Nizhny Tagil SAM Support Facility	57-58-00N 60-02-00E	UR 0150-13	Type I (rectangular)			
21	Nizhny Tagil SAM Site C16-2	57-48-00N 60-01-00E	UR 0150-13	SA-2, star			
22	Vorkhaysa Salda ICBM Complex SAM Site B19-2	56-04-00N 61-01-00E	UR 0150-13	SA-2, star			
G Sverdlovsk/Vorkh-Neyvinsky SAM Defenses							
23	Vorkh-Neyvinsky SAM Site B04-2	57-08-45N 59-48-55E	UR 0150-18	SA-2, link			
24	Vorkh-Neyvinsky SAM Site A89-2	57-01-00N 59-41-55E	UR 0150-18	SA-2, link			
25	Vorkh-Neyvinsky SAM Support Facility	57-16-50N 59-36-00E	UR 0150-18	Type I (rectangular)			
26	Vorkh-Neyvinsky SAM Site B04-2	57-26-30N 60-40-00E	UR 0150-18	SA-2, link			
27	Vorkh-Neyvinsky SAM Site B09-2	57-18-00N 60-41-15E	UR 0150-18	SA-2, link			
28	Sverdlovsk SAM Site B05-2	57-01-15N 60-45-00E	UR 0150-18	SA-2, link			
29	Sverdlovsk SAM Site A01-2	56-57-00N 60-35-00E	UR 0150-18	SA-2, star			
30	Sverdlovsk SAM Support Facility	56-58-45N 60-45-15E	UR 0150-18	Type I (rectangular)			
31	Sverdlovsk SAM Site B10-2	56-48-40N 60-37-00E	UR 0150-18	SA-2, link			
32	Sverdlovsk SAM Site B08-2	56-41-00N 60-26-15E	UR 0150-18	SA-2, link			
33	Sverdlovsk SAM Site B09-2	56-41-45N 60-14-00E	UR 0150-18	SA-2, link			
34	Sverdlovsk SAM Site B04-2	56-50-15N 60-31-00E	UR 0150-18	SA-2, link			

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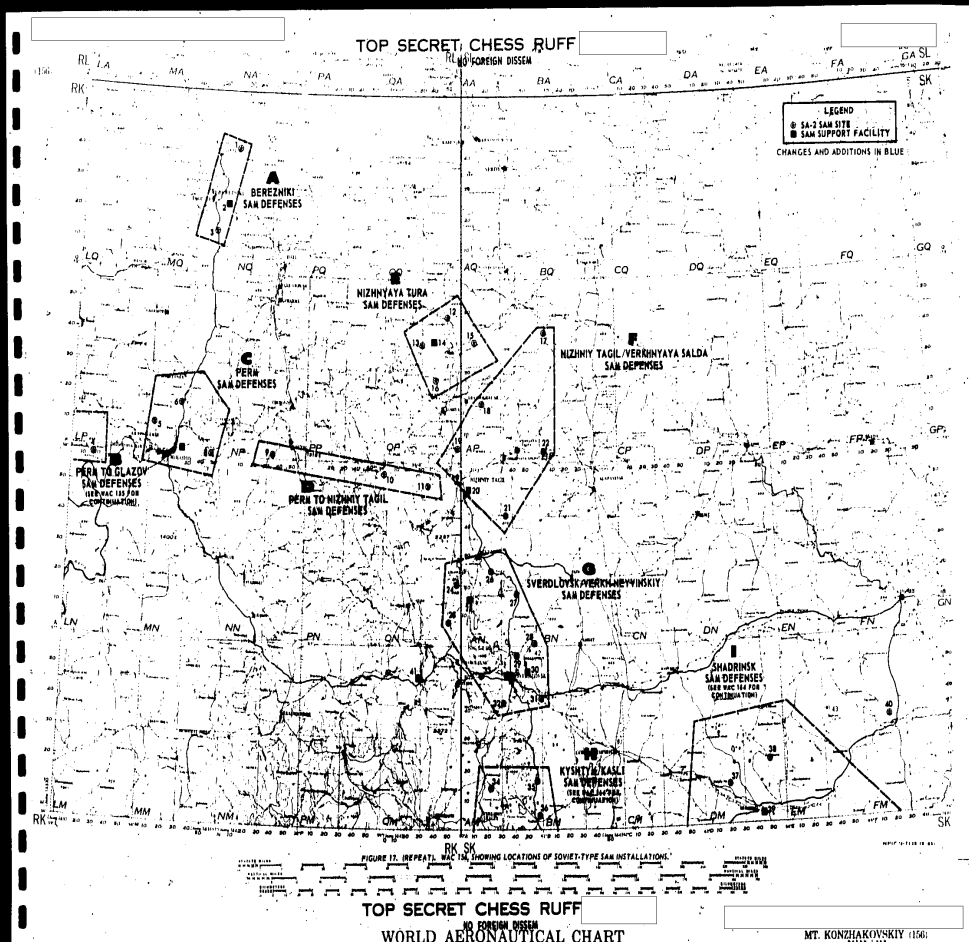
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Table 14. SAM Installations on WAC 156 (Continued)

Item	Name, Site Designator, & RE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Suggested	Remarks
34	Kyabym/Kaali SAM Defense						
34	Sverdlovsk SAM Site D20-2	56-14-45N 60-20-00E	UR 0156-23	SA-2, star			
35	Sverdlovsk SAM Site D17-2	56-16-40N 60-54-30E	UR 0156-23	SA-2, link			
36	Kaali SAM Site D18-2	56-05-05N 60-56-30E	UR 0156-23	SA-2, configuration undetermined			This site is under construction and has not yet assumed a configuration.
37	Shadrinsk ICBM Complex SAM Defense (in defense of Shadrinsk ICBM Complex)						
37	Shadrinsk SAM Site B31-2	56-18-00N 63-17-00E	UR 0156-24	SA-2, link			
38	Shadrinsk SAM Site D12-2	56-21-14N 63-47-15E	UR 0156-24	SA-2, link			
39	Shadrinsk SAM Support Facility	56-03-00N 63-41-00E	UR 0156-25	Type II (square)			
40	Defensive Role Undetermined						
40	Tyumen ICBM Complex SAM Site C22-2	56-32-00N 65-16-30E	UR 0156-26	SA-2, link			This is the only site identified thus far in the vicinity of the Tyumen ICBM Complex. It probably represents the beginning of a defensive pattern which will surround the ICBM complex.
41	Sverdlovsk SAM Storage Site 2	56-50-00N 60-25-00E	UR 0156-16	Missile assembly & storage facility			Large missile assembly and storage facility is similar to those near Moscow and Zhukovsk. It probably provides support for the entire central Urals area, rather than for any one defense complex.
42	Shadrinsk SAM Site A32-2	56-36-00N 61-51-00E	UR 0156-25	SA-2, star			Both this site and Tyumen's ICBM Complex SAM Site C22-2 are situated approximately halfway between Shadrinsk and Tyumen ICBM Complexes. Neither site fits into a pattern and neither seems particularly well situated to defend either of the ICBM complexes.

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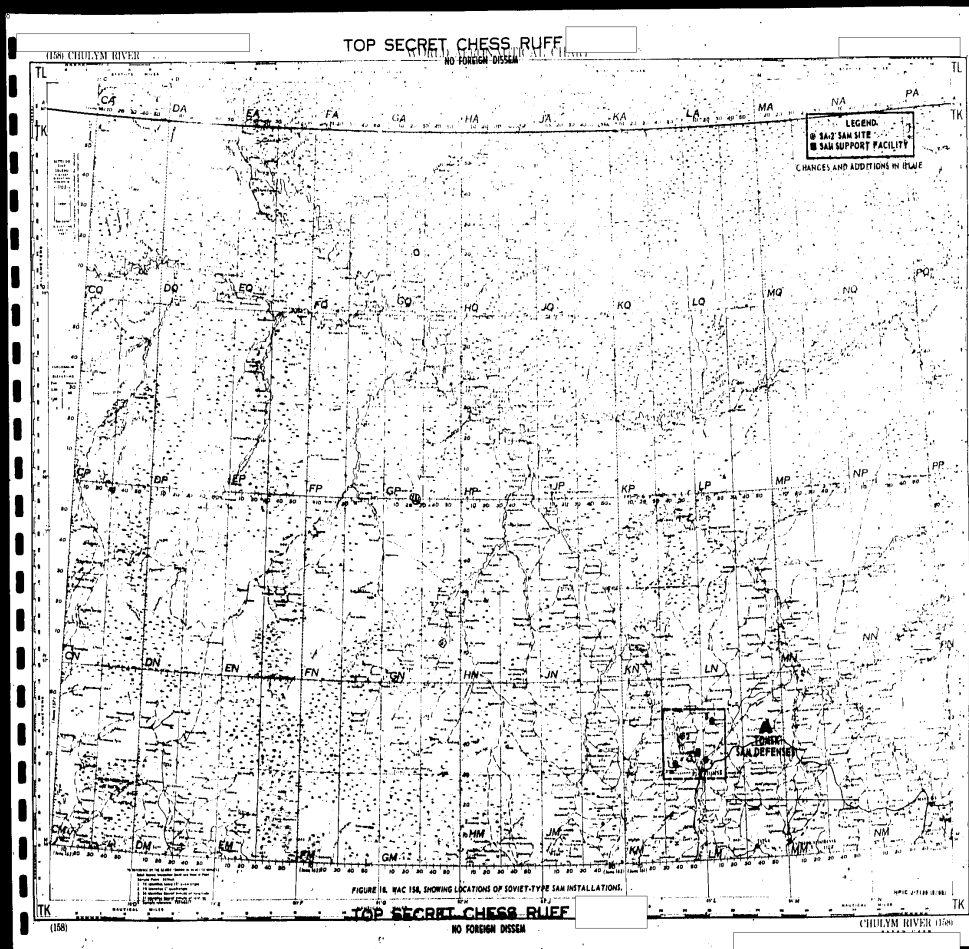
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Table 12. SAM Installations on WAP 158

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negotiated	Remarks
A	Tonk SAM Defenses						
1	Tonk SAM Site B29-2	56-32-30N 84-37-30E	UR 0128-24	SA-2, probable star			
2	Tonk SAM Site B33-2	56-41-10N 84-44-05E	UR 0128-24	SA-2, link			
3	Tonk SAM Site B02-2	56-45-05N 85-06-05E	UR 0128-24	SA-2, link			
4	Tonk SAM Site A02-2	56-32-30N 85-00-30E	UR 0128-24	SA-2, link			
5	Tonk SAM Support Facility	56-35-00N 84-55-30E	UR 0128-24	Type 1 (rectangular)			

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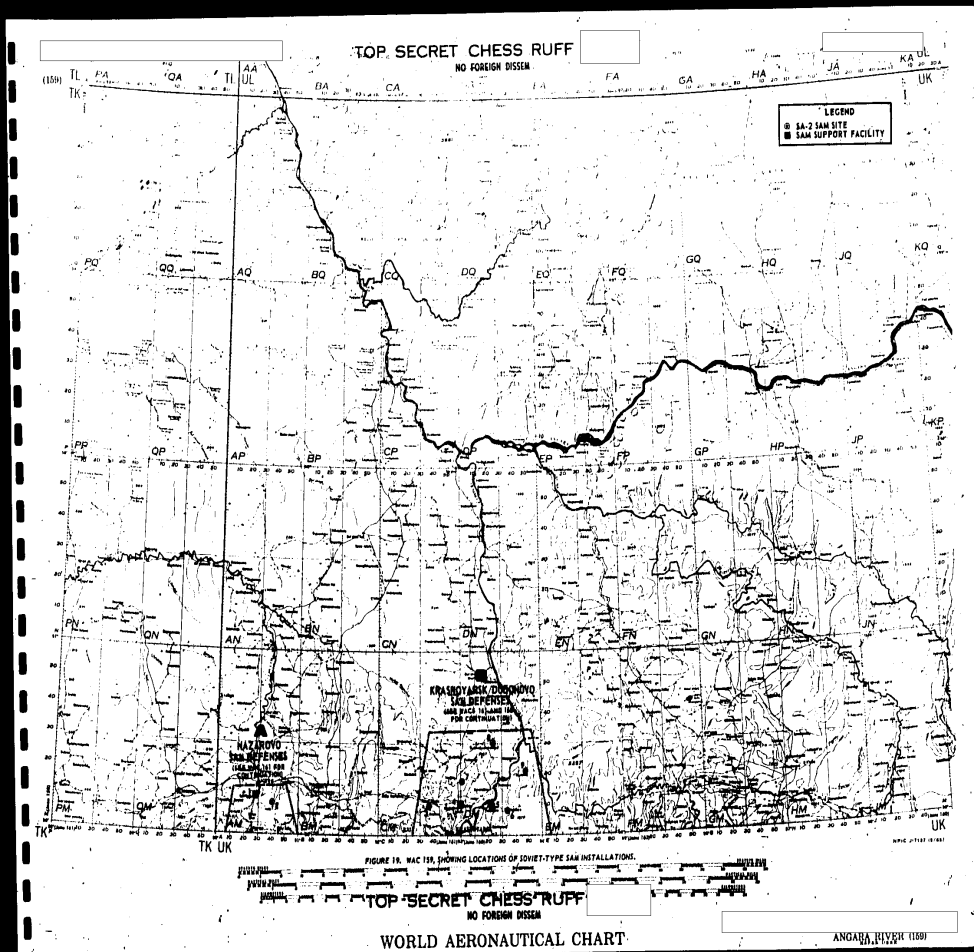
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Table 16. SAM Installations on WAC 159

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Naxos SAM Defenses (in defense of Naxos Thermal Power Plant GRES)							
1	Naxos SAM Support Facility	36-11-11N 30-25-30E	UR 0130-22	Type II (square)			
2	Naxos SAM Site B01-2	36-10-10N 30-30-30E	UR 0130-22	SA-2, link			
B. Krasnoyarsk/Dudonovo SAM Defenses							
3	Gladkaya ICBM Complex SAM Site B17-2	56-09-33N 32-54-30E	UR 0130-23	SA-2, link			
4	Krasnoyarsk SAM Support Facility 2	56-10-40N 32-56-30E	UR 0130-23	Type II (square)			
5	Krasnoyarsk SAM Support Facility 1	56-08-00N 33-21-30E	UR 0130-23	Type I (rectangular)			
6	Krasnoyarsk SAM Site C06-2	56-08-40N 33-30-15E	UR 0130-23	SA-2, link			
7	Krasnoyarsk SAM Site B02-2	56-18-30N 32-30-30E	UR 0130-23	SA-2, link			
8	Krasnoyarsk SAM Site D03-2	56-30-40N 33-31-30E	UR 0130-23	SA-2, link			
9	Krasnoyarsk SAM Site D06-2	56-30-00N 33-46-30E	UR 0130-23	SA-2, link			

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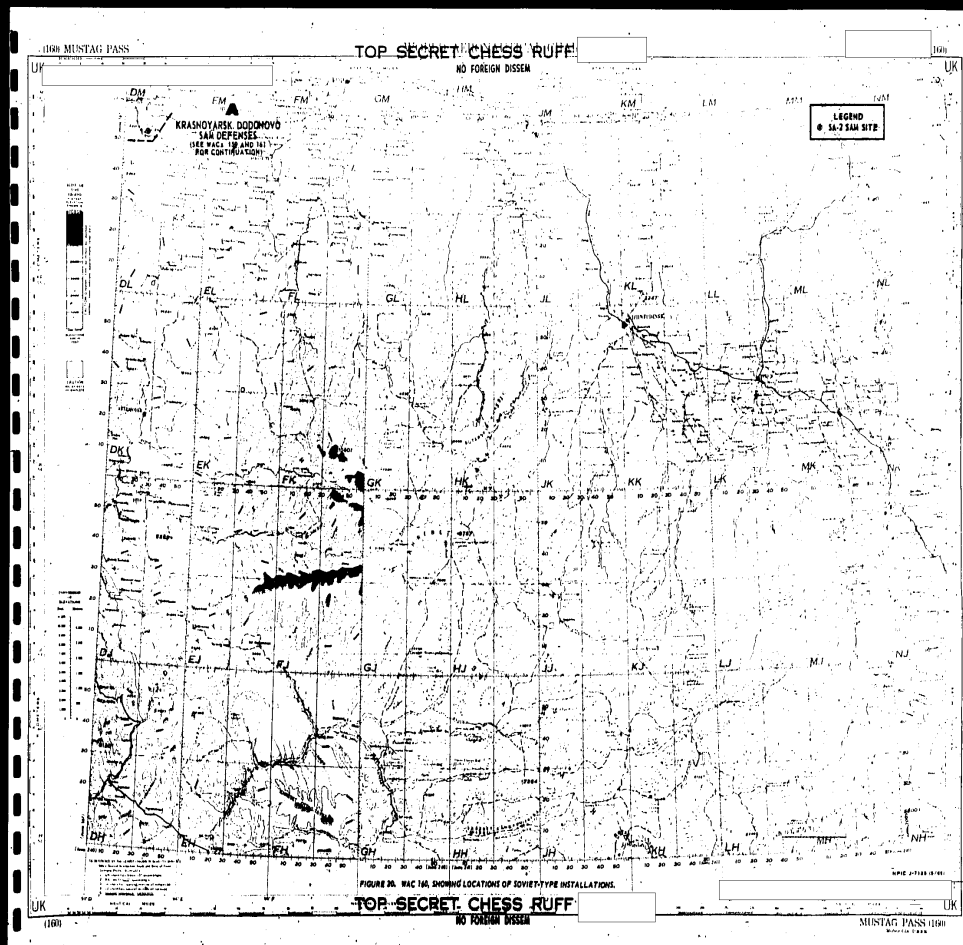
Table 17. SAM Installations on PAC-100

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
▲ Krasnoyarsk/Dudnovo SAM Defense							
1	Krasnoyarsk SAM Site B13-01	55-50-50N 85-15-00E	UR 0160-1	SA-9, link			

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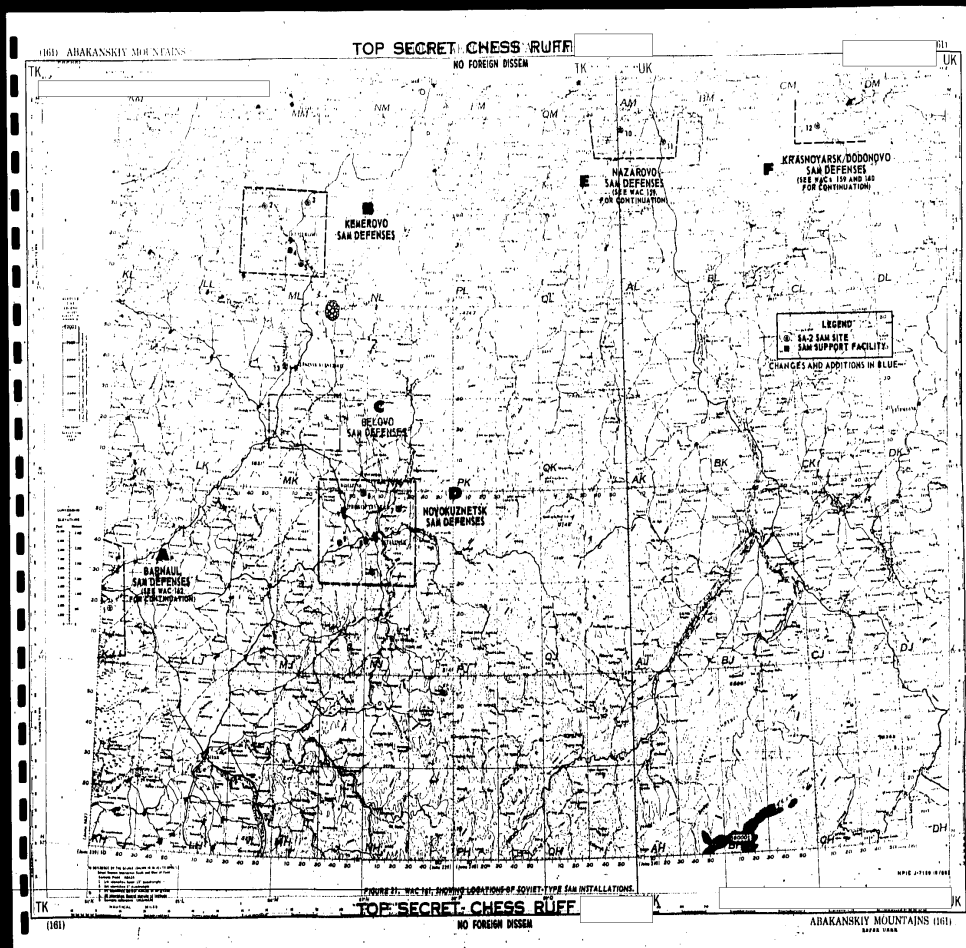
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Table 1B. SAM Installations on WAC 101

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading G - "Defensive Role Undetermined".							
A. Baraul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production, railroad car manufacturing and repair)							
1	Baraul SAM Site B11-2	55-16-20N 44-07-55E	UR 0161-16	SA-2, link			
B. Kemerovo SAM Defenses (in defense of important coal and chemical production in Kuznetsk Basin: coke, nitro, and ammunition plants)							
2	Kemerovo SAM Site B32-2	55-31-04N 85-43-20E	UR 0161-1	SA-2, link			
3	Kemerovo SAM Site B35-2	55-35-10N 86-14-00E	UR 0161-2	SA-2, probable link			
4	Kemerovo SAM Support Facility	55-17-40N 86-03-00E	UR 0161-3	Type II (square)			
5	Kemerovo SAM Site B15-2	55-15-20N 86-12-55E	UR 0161-2	SA-2, link			
C. Belovo SAM Defenses (in defense of Belovo town complex, the strategic significance of which is presently unknown)							
14	Belovo SAM Site A23-2	54-20-30N 86-10-00E	UR 0161-02	SA-2, configuration undetermined			
15	Belovo SAM Site A11-2	54-25-00N 86-51-20E	UR 0161-12	SA-2, configuration undetermined			
D. Novokuznetsk SAM Defenses (in defense of second largest metallurgical center in USSR: ferroalloy, steel, coke, aluminum, steel products production)							
6	Novokuznetsk SAM Site B94-2	55-49-00N 86-55-00E	UR 0161-12	SA-2, link			
7	Novokuznetsk SAM Site B35-2	55-36-00N 87-20-00E	UR 0161-12	SA-2, probable link			
8	Novokuznetsk SAM Support Facility	55-45-00N 87-00-00E	UR 0161-12	Type II (square)			
9	Novokuznetsk SAM Site B07-2	55-45-00N 86-49-45E	UR 0161-12	SA-2, link			
16	Novokuznetsk SAM Site B19-2	55-51-00N 87-07-00E	UR 0161-17	SA-2, configuration undetermined			
E. Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)							
10	Nazarovo SAM Site B36-2	55-57-00N 86-01-00E	UR 0161-4	SA-2, star			
11	Nazarovo SAM Site B16-2	55-52-00N 86-35-10E	UR 0161-4	SA-2, probable link			
F. Krasnoyarsk/Dudovsk SAM Defenses							
12	Krasnoyarsk SAM Site B25-2	55-44-40N 92-36-40E	UR 0161-9	SA-2, link			
G. Defensive Role Undetermined							
13	Lopinsk-Krasnoyarsk SAM Site A27-2	54-28-00N 86-00-00E	UR 0161-5	SA-2, configuration undetermined			This site was converted when seen on Mission 8044 - it is not visible on most analysis, however photography of this site was no longer visible as clear, good quality photography of

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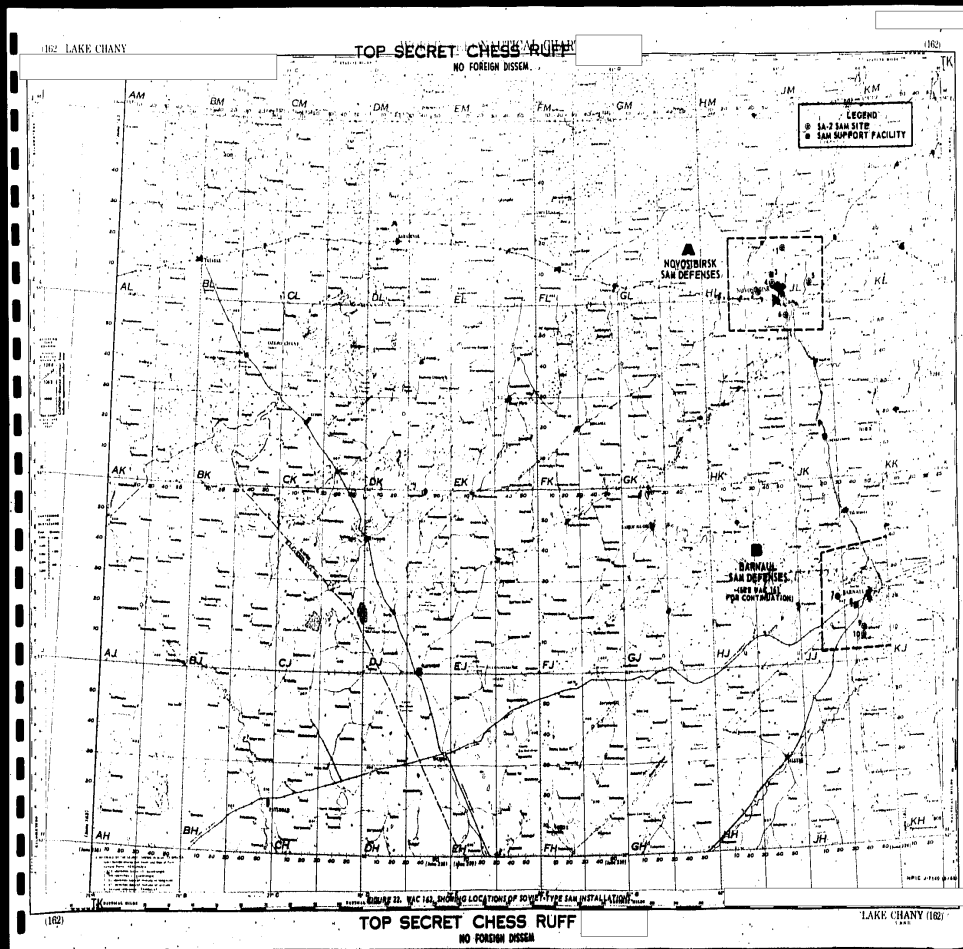
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Table 15. SAM Installations on WAC 101

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Novosibirsk SAM Defenses (in defense of major industrial, transportation, and communications center: arms, ammunition, steel, light metals, vehicle and aircraft assembly, machine tool and heavy equipment, uranium feed materials; ICBM launch complex)							
1	Novosibirsk SAM Site D01-2	55-16-00N 82-59-30E	UR 0102-10	SA-2, link			
2	Novosibirsk SAM Site D24-2	55-02-00N 82-57-07E	UR 0102-10	SA-2, link			
3	Novosibirsk SAM Support Facility	55-06-00N 82-50-55E	UR 0102-10	Type I (rectangular)			
4	Novosibirsk SAM Site A23-2	55-05-15N 82-51-00E	UR 0102-10	SA-2, probable fan			
5	Novosibirsk SAM Site D06-2	55-04-20N 82-16-10E	UR 0102-10	SA-2, link			
6	Novosibirsk SAM Site A17-2	54-54-15N 82-00-10E	UR 0102-10	SA-2, link			
B Barnaul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production; railroad car manufacturing and repair)							
7	Barnaul SAM Site B04-2	55-01-00N 85-27-30E	UR 0102-20	SA-2, star			
8	Barnaul SAM Support Facility	55-19-00N 85-58-45E	UR 0102-20	Type II (square)			
9	Barnaul SAM Site B20A-2	55-11-10N 85-48-00E	UR 0102-20	SA-2, probable link			
10	Barnaul SAM Site B20-2	55-08-40N 85-41-00E	UR 0102-20	SA-2, star			

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Table 20. SAM Installations on HAC 103

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
▲ Onak SAM Defenses (in defense of major industrial and transportation center: aircraft engines, parts, airframe production; tires, armored vehicles and rubber production)							
1	Onak SAM Site B14-0	05-07-30N 73-17-10E	UR 0145-10	SA-2, link			
2	Onak SAM Site B16-0	04-25-10N 73-01-30E	UR 0145-9	SA-2, link			
3	Onak SAM Site B17-0	04-45-10N 73-29-30E	UR 0145-10	SA-2, link			
4	Onak SAM Site A13-0	04-14-10N 73-57-25E	UR 0145-10	SA-2, star			
5	Onak SAM Support Facility	04-55-45N 73-53-05E	UR 0145-10	Type 1 (rectangular)			
6	Onak SAM Site B08-0	04-50-35N 73-41-30E	UR 0145-10	SA-2, link			

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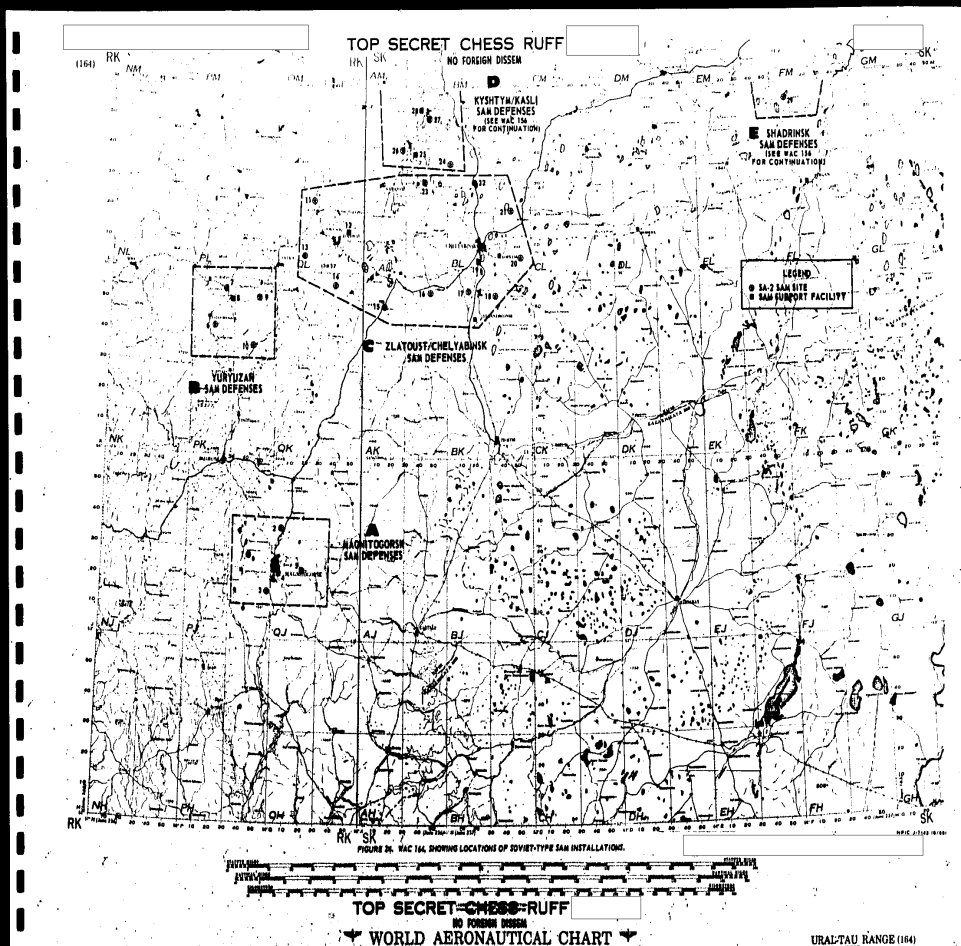
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Table 21. SAM Installations on WAC 103

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Magtongorsk SAM Defenses (in defense of largest metallurgical combine in the USSR)							
1	Magtongorsk SAM Site B29-2	55-27-00N 56-46-30E	UR 0164-16	SA-2, link			
2	Magtongorsk SAM Site B02-2	55-36-50N 56-06-03E	UR 0164-17	SA-2, star			
3	Magtongorsk SAM Site B21-2	55-15-00N 56-58-30E	UR 0164-17	SA-2, star			
4	Magtongorsk SAM Support Facility	55-21-00N 56-44-00E	UR 0164-17	Type 1 (rectangular)			
5	Magtongorsk SAM Site B11-2	55-25-00N 56-30-30E	UR 0164-17	SA-2, star			
B Yuryan Nuclear Weapons Complex SAM Defenses							
6	Yuryan SAM Site B22-2	54-42-50N 56-15-30E	UR 0164-4	SA-2, star			
7	Yuryan SAM Site A31-2	54-54-55N 56-25-00E	UR 0164-4	SA-2, probable link			
8	Yuryan SAM Support Facility	54-50-40N 56-27-30E	UR 0164-4	Type 1 (rectangular)			
9	Yuryan SAM Site B09-2	54-51-00N 56-44-00E	UR 0164-4	SA-2, star			
10	Yuryan SAM Site B15-2	54-36-55N 56-44-30E	UR 0164-4	SA-2, link			
C Zlatoust/Chelyabinsk SAM Defenses							
11	Zlatoust SAM Site B33-2	55-24-50N 58-25-00E	UR 0164-9	SA-2, star			
12	Zlatoust SAM Support Facility	55-13-00N 58-44-00E	UR 0164-9	Type 1 (rectangular)			
13	Zlatoust SAM Site B25-2	55-05-00N 58-18-00E	UR 0164-7	SA-2, star			
14	Zlatoust SAM Site B18-2	54-58-30N 58-41-00E	UR 0164-7	SA-2, star			
15	Mians SAM Site B12-2	54-40-40N 60-15-00E	UR 0164-7	SA-2, star			
16	Mians SAM Site C11-2	54-35-10N 60-45-30E	UR 0164-8	SA-2, star			
17	Chelyabinsk SAM Site B26-2	54-54-00N 61-16-00E	UR 0164-8	SA-2, star			
18	Chelyabinsk SAM Site B17-2	54-33-10N 61-34-00E	UR 0164-8	SA-2, link			
19	Chelyabinsk SAM Support Facility	55-04-10N 61-23-00E	UR 0164-8	Type 1 (rectangular)			
20	Chelyabinsk SAM Site B14-2	55-05-00N 61-43-00E	UR 0164-8	SA-2, star			
21	Chelyabinsk SAM Site B06-2	55-21-10N 61-46-00E	UR 0164-8	SA-2, star			
22	Chelyabinsk SAM Site C28-2	55-30-40N 61-20-00E	UR 0164-8	SA-2, link			
23	Kyshtym SAM Site B16-2	55-50-00N 60-45-10E	UR 0164-8	SA-2, link			
D Kyshtym/Kasli SAM Defenses							
24	Kyshtym SAM Site B12-2	55-35-50N 61-09-00E	UR 0164-8	SA-2, star			
25	Kyshtym SAM Support Facility	55-38-50N 60-36-00E	UR 0164-8	Type 1 (rectangular)			
26	Kyshtym SAM Site B23-2	55-40-20N 60-28-00E	UR 0164-8	SA-2, link			
27	Kyshtym SAM Site B05-2	55-30-20N 60-47-00E	UR 0164-8	SA-2, link			
28	Kasli SAM Support Facility	55-33-30N 60-41-00E	UR 0164-8	Type 1 (rectangular)			
E Shadrinsk SAM Defenses (in defense of Shadrinsk ICBM Complex)							
29	Kurgan SAM Site C29-2	55-54-30N 65-08-30E	UR 0164-9	SA-2, star			

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Table 22. SAM Installations on RHP 163

Item	Name, Site Designator, & BR No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Reported	Remarks
A Kazan SAM Defenses (in defense of Kazan: production center for aircraft parts, engines and airframes, optical equipment, explosives, synthetic rubber, and chemicals)							
1	Kazan SAM Site B10-2	55-53-30N 49-48-10E	UR 0105-1	SA-2, link			
2	Kazan SAM Site A19-2	55-41-00N 49-00-30E	UR 0105-1	SA-2, star			
3	Kazan SAM Support Facility	55-45-00N 49-15-00E	UR 0105-1	Type I (rectangular)			
4	Kazan SAM Site B10-4	55-45-00N 49-27-10E	UR 0105-1	SA-2, star			
B Ulyanovsk SAM Defenses (in defense of Ural Automobile Plant; ammunition, machine tool, aircraft instruments, and POL production; nuclear power plant)							
5	Ulyanovsk SAM Site B27-0	54-18-00N 49-01-10E	UR 0105-11	SA-0, category I			A perimeter road around the launch area has been added and the entire launch area is encircled by a fence as shown on photography of [redacted]
6	Ulyanovsk SAM Site B10-0	54-22-30N 49-44-30E	UR 0105-11	SA-0, category I			A movement can be seen around the entire launch area on photography of [redacted]
32	Ulyanovsk SAM Support Facility	54-25-15N 49-39-25E	UR 0105-11	Type II (square)			
C Kuyshevsk/Zhigulevsk Dam SAM Defenses (in defense of a strategic dam and hydroelectric power plant at Zhigulevsk and the industrial complex at Kuyshevsk; reported alternate capital of USSR; missile and aircraft test and production; arms, bearings, tools, optics, POL, and vehicle parts)							
7	Kuyshevsk SAM Site D12-2	55-36-00N 49-29-40E	UR 0105-11	SA-0, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
8	Kuyshevsk SAM Site C14-2	55-37-30N 49-44-35E	UR 0105-12	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
9	Kuyshevsk SAM Site D21-2	55-31-45N 49-30-40E	UR 0105-16	SA-2, star			Between missions (Aug 63), a movement was built almost completely around this SAM site.
10	Kuyshevsk SAM Support Facility 2	55-30-28N 49-31-38E	UR 0105-16	Type I (rectangular)			
11	Kuyshevsk SAM Site C10-2	55-31-00N 49-30-10E	UR 0105-17	SA-2, star			
12	Kuyshevsk SAM Site Q20-2	55-22-15N 49-13-40E	UR 0105-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
13	Kuyshevsk SAM Site C20-2	55-21-15N 49-30-00E	UR 0105-16	SA-2, star			
14	Kuyshevsk SAM Site C21-2	55-24-25N 49-30-00E	UR 0105-16	SA-2, star			
15	Kuyshevsk SAM Site C10-2	55-31-20N 49-18-45E	UR 0105-17	SA-2, star			
16	Kuyshevsk SAM Support Facility 1	55-17-10N 49-18-30E	UR 0105-17	Type I (rectangular)			This is a modified rectangular support facility.
17	Kuyshevsk SAM Site B07-2	55-18-25N 49-34-20E	UR 0105-17	SA-2, star			
18	Kuyshevsk SAM Site C27-2	55-09-45N 49-29-55E	UR 0105-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
19	Kuyshevsk SAM Site	55-16-10N 49-35-40E	UR 0105-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
20	Kuyshevsk SAM Site B20-2	55-10-10N 49-30-40E	UR 0105-17	SA-2, star			
21	Kuyshevsk SAM Site B13-2	55-02-10N 49-30-40E	UR 0105-17	SA-2, star			
D Balakovo SAM Defenses							
22	Balakovo SAM Site B04-0	55-10-40N 49-53-40E	UR 0105-01	SA-0, category I			
E Ufa SAM Defenses (in defense of aircraft engine, POL, chemicals production; Ural transportation center; support missile static test facility)							
23	Ufa SAM Site C20-2	55-05-10N 55-10-00E	UR 0105-10	SA-2, link			
24	Ufa SAM Site B11-2	54-50-20N 55-36-00E	UR 0105-10	SA-2, link			
25	Ufa SAM Support Facility	54-48-20N 55-40-00E	UR 0105-10	Type II (square)			
26	Ufa SAM Site C24-2	54-51-00N 55-36-00E	UR 0105-10	SA-2, link			
27	Ufa SAM Site B17-2	54-50-10N 55-05-00E	UR 0105-10	SA-2, link			
F Sterlitamak SAM Defenses (in defense of cement, chemicals, explosives, and machine tool production facilities; static test facility)							
28	Sterlitamak SAM Site C10-2	55-26-10N 55-50-40E	UR 0105-13	SA-2, link			
29	Sterlitamak SAM Support Facility	55-20-20N 55-49-30E	UR 0105-13	Type II (square)			
30	Sterlitamak SAM Site C14-2	55-04-00N 55-25-15E	UR 0105-00	SA-2, probable link			
31	Sterlitamak SAM Site C10-2	55-06-15N 55-05-45E	UR 0105-00	SA-2, star			

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Table 23. SAM Installations on WAC 100

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading G - "Defensive Role Undetermined".							
A. Ryazan SAM Bases (in defense of Ryazan: large complex containing extensive rail facilities, postal telecommunication plant, and a large military airfield).							
25	Ryazan SAM Site B12-2	54-16-00N 39-22-50E	UR 0066-4	SA-2, configuration undetermined			
26	Ryazan SAM Site B13-2	54-18-10N 39-23-20E	UR 0066-4	SA-2, configuration undetermined			
27	Ryazan SAM Site B14-2	54-20-30N 39-23-10E	UR 0066-4	SA-2, configuration undetermined			
28	Ryazan SAM Site B15-2	54-27-00N 39-23-40E	UR 0066-4	SA-2, configuration undetermined			
B. Tambov SAM Defenses (in defense of Tambov Regional Military Storage Installation)							
1	Tambov SAM Site A19-2	52-40-00N 41-17-30E	UR 0166-22	SA-2, link			No internal road configuration is visible.
2	Tambov SAM Site C19-2	52-32-00N 41-19-00E	UR 0166-22	SA-2, configuration undetermined			
3	Tambov SAM Support Facility	52-26-50N 41-20-15E	UR 0166-22	Type II (square)			No internal road configuration is visible.
4	Tambov SAM Site B15-2	52-35-00N 41-48-30E	UR 0166-22	SA-2, configuration undetermined			
5	Tambov SAM Site C17-2	52-17-30N 41-38-30E	UR 0166-22	SA-2, link			
C. Sarov Nuclear Weapons Research and Development Center SAM Defenses							
6	Sarov SAM Site B13-2	55-08-00N 45-19-30E	UR 0166-3	SA-2, link			
7	Sarov SAM Site B14-2	54-48-00N 45-03-00E	UR 0166-3	SA-2, link			
8	Sarov SAM Site A16-2	54-00-40N 45-07-30E	UR 0166-3	SA-2, configuration undetermined			
9	Sarov SAM Support Facility	54-05-10N 45-15-30E	UR 0166-3	Type I (rectangular)			
10	Sarov SAM Site A18-2	54-06-00N 45-19-00E	UR 0166-3	SA-2, link			No internal road configuration is visible.
11	Sarov SAM Site B10-2	54-09-00N 45-34-00E	UR 0166-3	SA-2, link			
12	Sarov SAM Site B17-2	54-45-00N 45-19-00E	UR 0166-3	SA-2, configuration undetermined			
D. Sarovskikh SAM Defenses (in defense of Sarovskikh Regional Military Storage Installation)							
13	Gorkiy SAM Site C11-2	55-10-10N 45-34-00E	UR 0166-3	SA-2, link			
14	Gorkiy SAM Site C17-2	55-05-00N 46-10-00E	UR 0166-3	SA-2, link			
15	Arsenav SAM Support Facility	55-44-40N 45-45-30E	UR 0166-3	Type II (square)			
16	Arsenav SAM Site B14-2	55-33-30N 45-45-00E	UR 0166-3	SA-2, link			
17	Arsenav SAM Site B15-2	55-33-30N 45-49-00E	UR 0166-3	SA-2, link			
E. Penza SAM Defenses (in defense of armament, machinery, instrument, computer, and ammunition production, POL storage, and transportation facilities)							
18	Penza SAM Site B10-2	55-23-30N 45-04-00E	UR 0166-19	SA-2, star			As seen on Mission [redacted] a revetment was being placed around the entire site. A perimeter trail around the launch area was visible on photography of Mission [redacted]. Now the configuration of this site closely compares to that of a SA-2, star.
19	Penza SAM Site B15-2	55-06-10N 44-41-40E	UR 0166-19	SA-2, category 1			
20	Penza SAM Support Facility	55-19-40N 44-54-30E	UR 0166-19	Type I (rectangular)			
21	Penza SAM Site B10-2	55-16-40N 45-31-00E	UR 0166-19	SA-2, category 1			
22	Penza SAM Site B14-2	55-01-50N 45-19-40E	UR 0166-19	SA-2, star			A revetment completely surrounds this site, including the missile-bolt revetment.
F. Balakovo SAM Defenses							
23	Balakovo SAM Support Facility	53-00-30N 47-44-00E	UR 0166-36	Type I (rectangular)			
G. Defensive Role Undetermined							
24	Oshkorp-Zyurov SAM Site B10-2	55-48-00N 50-22-40E	UR 0166-1	SA-2, configuration undetermined			

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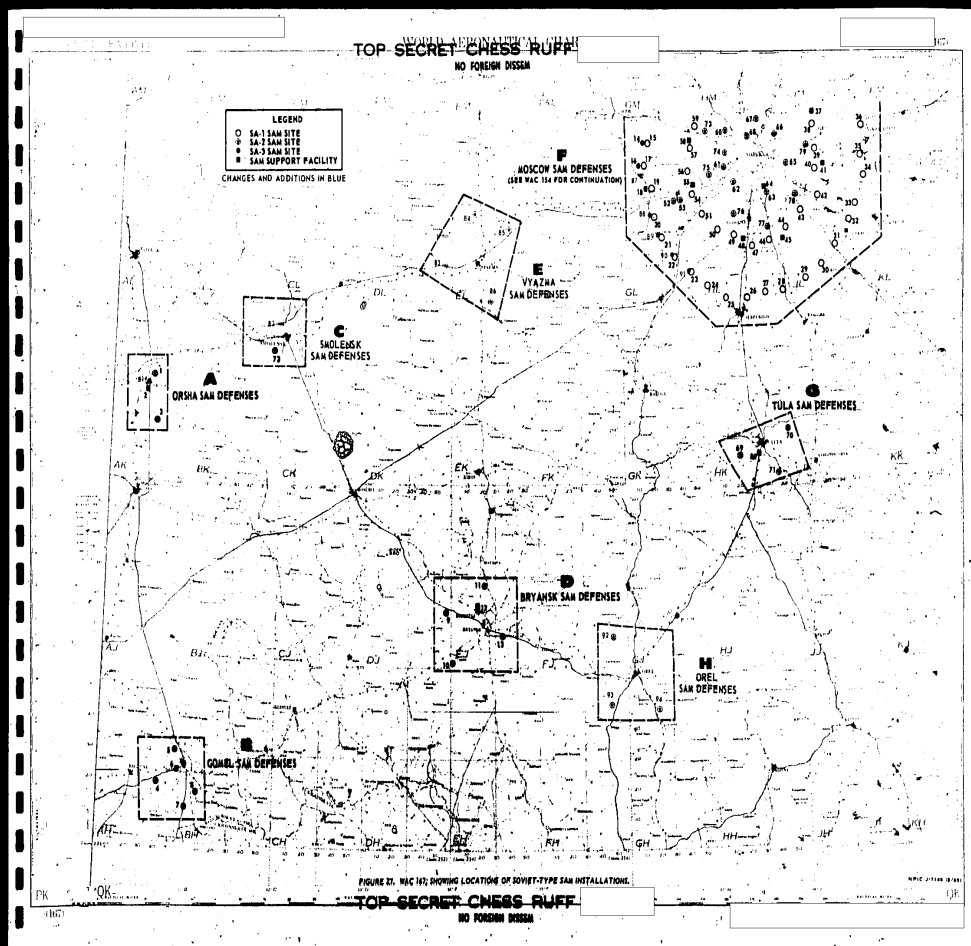
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Table 21. SAM Installations on WAC 107

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Orsha SAM Defenses (in defense of long-range bomber base, strategic railroad facilities, and military training and storage facilities)							
1	Orsha SAM Site A01-2	54-54-15N 30-39-25E	UR 0187-4	SA-2, star			
2	Orsha SAM Support Facility	54-59-00N 30-35-00E	UR 0187-4	Type II (square)			
3	Orsha SAM Site B10-2	54-19-00N 30-35-00E	UR 0187-11	SA-2, star			
4	Orsha SAM Training Site A10-2	54-28-00N 30-35-00E	UR 0187-6	SA-2, configuration undetermined			This site is adjacent to the south side of the Orsha SAM Support Facility. Six unrectified launch positions are located around a rectangular surface road.
B Gomel SAM Defenses (in defense of long-range bomber base, MRBM complex, machine tool and agricultural machinery production, and transportation facilities)							
5	Gomel SAM Site B25-2	52-21-00N 30-41-15E	UR 0187-21	SA-2, link			
6	Gomel SAM Site A33-2	52-52-30N 30-50-55E	UR 0187-21	SA-2, probable link			
7	Gomel SAM Support Facility	52-25-30N 30-50-55E	UR 0187-21	Type I (rectangular)			
8	Gomel SAM Site B19-2	52-18-00N 31-00-55E	UR 0187-21	SA-2, link			
9	Gomel SAM Site A19-2	52-18-00N 31-00-00E	UR 0187-21	SA-2, link			
C Smolensk SAM Defenses (in defense of the Smolensk town complex, rail facilities, a large airfield and minor industries)							
10	Smolensk SAM Site A04-2	54-44-12N 31-55-40E	UR 0187-7	SA-2, modified link			The perimeter road of this SAM site is more rectangular than circular. At the time of the previous report, 5/ the defense role of this site was undetermined.
11	Smolensk SAM Site A33-2	54-51-30N 31-57-40E	UR 0187-7	SA-2, configuration undetermined			
D Bryansk SAM Defenses (in defense of Bryansk complex, air-defense zone headquarters, and minor industrial plants)							
12	Bryansk SAM Site B09-2	53-10-00N 32-56-30E	UR 0187-18	SA-2, link			
13	Bryansk SAM Site B08-2	53-08-00N 34-01-00E	UR 0187-18	SA-2, link			
14	Bryansk SAM Site B01-2	53-09-00N 34-02-00E	UR 0187-18	SA-2, link			
15	Bryansk SAM Support Facility	53-07-15N 34-17-00E	UR 0187-18	Type II (square)			
16	Bryansk SAM Site A18-2	53-11-00N 34-54-15E	UR 0187-18	SA-2, link			
E Vyazma SAM Defenses (in defense of the Vyazma town complex, rail facilities, a large military airfield, and minor industries)							
17	Vyazma SAM Site B25-2	53-25-55N 33-55-00E	UR 0187-6	SA-2, link			
18	Vyazma SAM Site B36-2	53-26-00N 34-15-25E	UR 0187-5	SA-2, link			
19	Vyazma SAM Site B05-2	53-25-40N 34-36-30E	UR 0187-5	SA-2, link			
20	Vyazma SAM Site B16-2	53-08-40N 34-26-00E	UR 0187-6	SA-2, link			
F Moscow SAM Defenses (in defense of Soviet capital—largest city in USSR: major military, industrial, and research center)							
21	Moscow SAM Site E26-2	55-55-00N 36-16-40E	UR 0187-4	SA-2, configuration F			
22	Moscow SAM Site E26-1	55-55-00N 36-17-00E	UR 0187-4	SA-1, herringbone			
23	Moscow SAM Site E27-2	55-44-30N 36-14-30E	UR 0187-4	SA-2, configuration G			
24	Moscow SAM Site E27-1	55-44-25N 36-16-00E	UR 0187-4	SA-1, herringbone			
25	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
26	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
27	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
28	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
29	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
30	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
31	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
32	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
33	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
34	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
35	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
36	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
37	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
38	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
39	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
40	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
41	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
42	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
43	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
44	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
45	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
46	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
47	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
48	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
49	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
50	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
51	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
52	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
53	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
54	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
55	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
56	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
57	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
58	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
59	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
60	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
61	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
62	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
63	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
64	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
65	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
66	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
67	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
68	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
69	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
70	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
71	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
72	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
73	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
74	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
75	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
76	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
77	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
78	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
79	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
80	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
81	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
82	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
83	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
84	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
85	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
86	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
87	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
88	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
89	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
90	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
91	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
92	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
93	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
94	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
95	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
96	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
97	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
98	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
99	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
100	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
101	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
102	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
103	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
104	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
105	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
106	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
107	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
108	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
109	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
110	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
111	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
112	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
113	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
114	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
115	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
116	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
117	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
118	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
119	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
120	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
121	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
122	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
123	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
124	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
125	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
126	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
127	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
128	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
129	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
130	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
131	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
132	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
133	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
134	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			
135	Moscow SAM Site E26-2	55-55-00N 36-16-00E	UR 0187-4	SA-2, configuration G			
136	Moscow SAM Site E26-1	55-55-00N 36-16-00E	UR 0187-4	SA-1, herringbone			



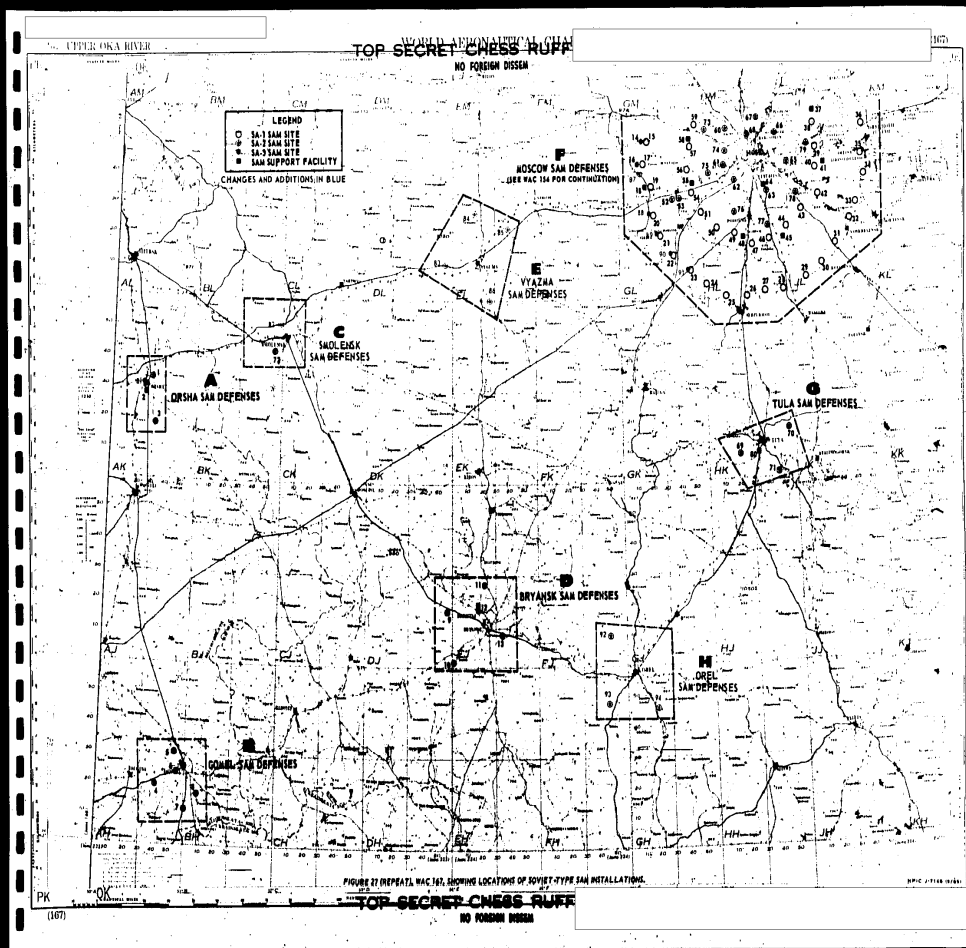
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Table E4, SAM Installations in WAF 167 (Continued)

Item	Name, Site Designator, & HE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
32	Moscow SAM Site E15-1	55-29-37N 36-43-35E	UR 0107-5	SA-1, homophone			
33	Moscow SAM Site E15-1	55-29-32N 36-40-47E	UR 0107-5	SA-1, homophone			
34	Moscow SAM Site E15-1	55-27-12N 36-55-31E	UR 0107-5	SA-1, homophone			
35	Moscow SAM Site E15-1	55-14-10N 36-54-54E	UR 0107-5	SA-1, homophone			
36	Moscow SAM Site E15-1	55-25-10N 36-54-49E	UR 0107-5	SA-1, homophone			
37	Moscow SAM Storage Site	55-50-45N 36-20-30E	UR 0107-5	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Yakovlev SAM Storage Site.
38	Moscow SAM Site C07-1	55-55-13N 36-20-24E	UR 0107-5	SA-1, homophone			
39	Moscow SAM Site C00-1	55-47-26N 36-21-40E	UR 0107-5	SA-1, homophone			
40	Moscow SAM Site C10-1	55-40-17N 36-21-30E	UR 0107-5	SA-1, homophone			
41	Moscow SAM Storage Site	55-41-30N 36-27-43E	UR 0107-5	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Stapanov SAM Storage Site.
42	Moscow SAM Site C10-1	55-39-10N 36-22-40E	UR 0107-5	SA-1, homophone			
43	Moscow SAM Site C14-1	55-37-48N 36-00-01E	UR 0107-5	SA-1, homophone			
44	Moscow SAM Site C10-1	55-33-12N 37-04-51E	UR 0107-5	SA-1, homophone			
45	Moscow SAM Storage Site	55-19-30N 37-54-30E	UR 0107-5	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Belyayev SAM Storage Site.
46	Moscow SAM Site C17-1	55-16-43N 37-46-03E	UR 0107-5	SA-1, homophone			
47	Moscow SAM Site C10-1	55-17-06N 37-54-53E	UR 0107-5	SA-1, homophone			This site has a secured storage/support facility collocated with it.
48	Moscow SAM Storage Site	55-19-10N 37-37-03E	UR 0107-5	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Khimov SAM Storage Site.
49	Moscow SAM Site C30-1	55-20-16N 37-22-07E	UR 0107-5	SA-1, homophone			
50	Moscow SAM Site C32-1	55-20-37N 37-10-30E	UR 0107-4	SA-1, homophone			
51	Moscow SAM Site C34-1	55-27-33N 36-59-03E	UR 0107-4	SA-1, homophone			
52	Moscow SAM Site D23A-1	55-35-00N 36-40-20E	UR 0107-4	SA-2, unrevoked			
53	Moscow SAM Site D23B-1	55-35-10N 36-41-10E	UR 0107-4	SA-2, link			This site, and Moscow SAM Site D23A-2, are possibly used for SAM Training.
54	Moscow SAM Site C25-1	55-34-33N 36-33-41E	UR 0107-4	SA-1, homophone			
55	Moscow SAM Storage Site	55-27-50N 36-35-10E	UR 0107-4	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Gulyayev SAM Storage Site.
56	Moscow SAM Site C37-1	55-41-01N 36-49-35E	UR 0107-4	SA-1, homophone			
57	Moscow SAM Site C26-1	55-35-10N 36-35-03E	UR 0107-4	SA-1, homophone			This site has a secured storage/support facility collocated with it.
58	Moscow SAM Storage Site	55-31-00N 36-31-40E	UR 0107-4	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Istra SAM Storage Site.
59	Moscow SAM Site C30-1	55-36-30N 36-33-03E	UR 0107-4	SA-1, homophone			
60	Moscow SAM Site B31-2	55-44-10N 37-18-43E	UR 0107-3	SA-2, link			
61	Moscow SAM Site D26-2	55-48-18N 37-16-47E	UR 0107-3	SA-2, fan			
62	Moscow SAM Site D26-2	55-47-50N 37-20-00E	UR 0107-3	SA-2, fan			
63	Moscow SAM Site D18-2	55-42-00N 37-47-00E	UR 0107-3	SA-2, link			This site was apparently being camouflaged by the use of additional mounds and buildings to break up the normal SA-2 site signature. The facility was previously named Bryskov SAM Support Facility.
64	Moscow SAM Support Facility	55-30-30N 37-44-00E	UR 0107-3	Type 1 (rectangular)			
65	Moscow SAM Site B11-2	55-40-00N 36-30-00E	UR 0107-3	SA-2, link			
66	Moscow SAM Site D26-2	55-40-00N 37-30-00E	UR 0107-3	SA-2, link			
67	Moscow SAM Site D01-2	55-27-00N 37-40-00E	UR 0107-3	SA-2, link			
68	Moscow SAM Site A80-2	55-20-00N 37-40-00E	UR 0107-3	SA-2, link			This site consists of a concrete structure arranged in a U-shape. This site has disappeared. When seen on large buildings, probably apartment-type dwellings, were being constructed in this area.

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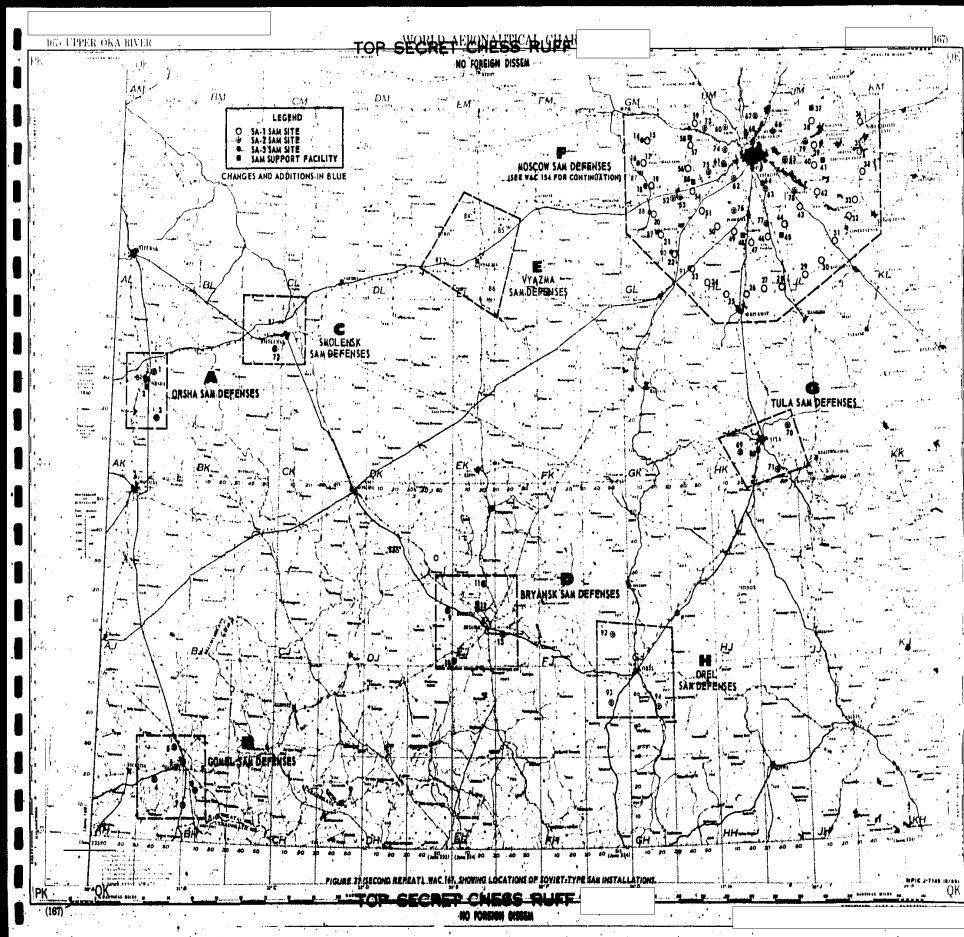
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Table 11. SAM Installations on WAC 107 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Missile & Date First Acquired	Missile & Date Installation Suggested	Remarks
73	Moscow SAM Site C30-2,	55-54-10N 37-03-23E	UR 0107-1	SA-2, configuration undetermined			
74	Moscow SAM Site R29-2,	55-47-50N 37-09-00E	UR 0107-5	SA-2, configuration undetermined			
75	Moscow SAM Site R20A-2	55-40-50N 37-05-40E	UR 0107-4	SA-2, configuration undetermined			
76	Moscow SAM Site R21-2,	55-27-30N 37-23-00E	UR 0107-6	SA-2, configuration undetermined			
77	Moscow SAM Site C17-2,	55-23-30N 37-10-30E	UR 0107-5	SA-2, configuration undetermined			
78	Moscow SAM Site C13-2,	55-22-22N 38-00-10E	UR 0107-5	SA-2, configuration undetermined			
79	Moscow SAM Site C00-2,	55-49-50N 38-15-00E	UR 0107-5	SA-2, configuration undetermined			
87	Moscow SAM Training Site E27-2,	55-11-10N 38-14-00E	UR 0107-4	SA-2, star			A large barracks area is associated with this site.
88	Moscow SAM Site E25-3,	55-27-55N 38-25-00E	UR 0107-1	SA-3, configuration G			
89	Moscow SAM Site E24-3,	55-20-50N 38-27-40E	UR 0107-1	SA-3, configuration G			
90	Moscow SAM Site E23-3,	55-14-20N 38-36-00E	UR 0107-1	SA-3, configuration G			
91	Moscow SAM Site E22-3,	55-09-00N 38-44-00E	UR 0107-1	SA-3, configuration G			
C Tula SAM Defenses (in defense of small-arms, ammunition, machinery, and pig-iron plants; three large power plants; and headquarters of airborne divisions)							
69	Tula SAM Site A25-2,	54-06-10N 37-31-50E	UR 0107-15	SA-2, configuration undetermined			An apparent attempt has been made to camouflage this site.
70	Tula SAM Site B06-2,	54-17-30N 37-54-30E	UR 0107-15	SA-2, link			
71	Tula SAM Site B15-2,	54-02-30N 37-47-30E	UR 0107-15	SA-2, link			An apparent attempt has been made to camouflage this site.
80	Tula SAM Support Facility,	54-08-03N 37-24-20E	UR 0107-15	Type I (rectangular)			
H Orel SAM Defenses (in defense of the Orel town complex: a military airfield and extensive rail, industrial, and storage facilities)							
92	Orel SAM Site B33-2,	53-10-25N 35-06-30E	UR 0107-19	SA-2, link			
93	Orel SAM Site B23-2,	53-47-50N 35-16-00E	UR 0107-21	SA-2, link			
94	Orel SAM Site B14-2,	53-15-20N 35-10-00E	UR 0107-24	SA-2, probable link			

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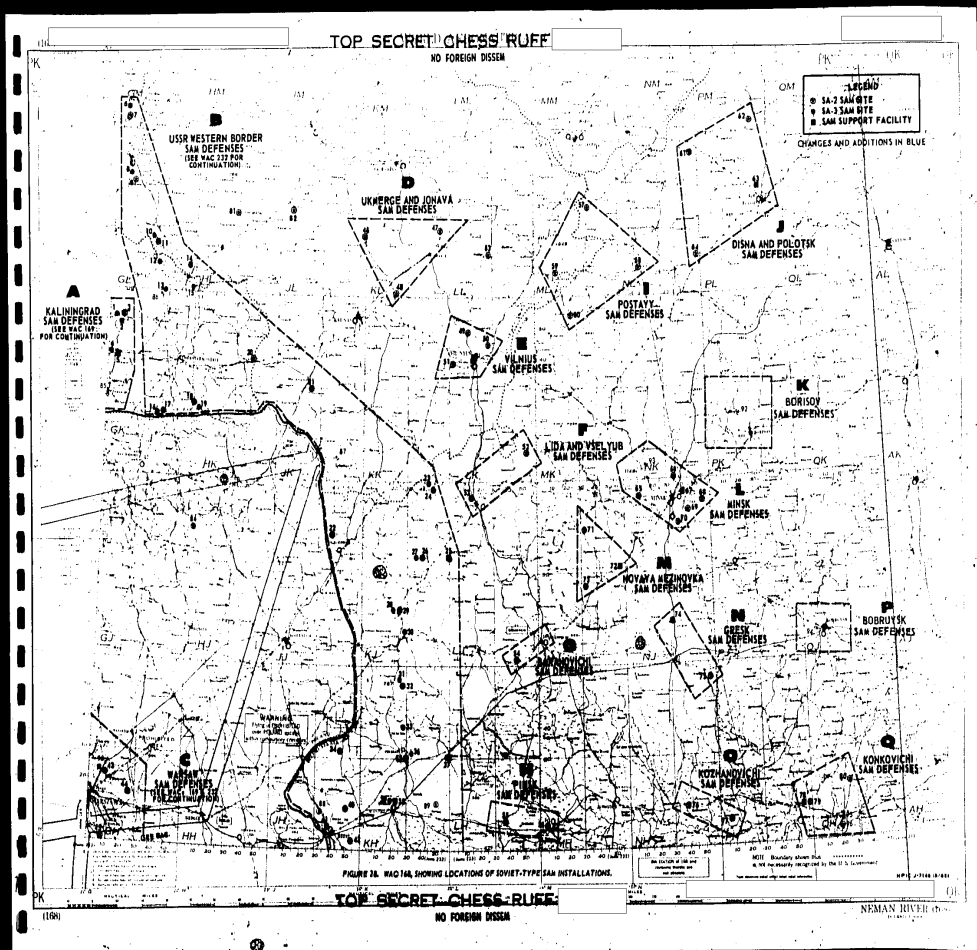
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Table 25. SAM Installations in WAC 188

Item	Name, site designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
NOTE: It is probable that the Soviets have attempted to create a zone defense in the USSR portion of this area, since many of the sites on the Soviet side of the border do not fall into obvious defense patterns. An attempt has been made to group these sites into logical complexes; however, it is recognized that the arrangement presented here is only one of several possible solutions. Those sites whose defense role cannot be determined and which are not located within the limits of a SAM defense area are listed under subheading "B." Definitive Role Undetermined.							
A. Kaliningrad SAM Defenses (in defense of strategic rail and water transportation routes; military supply depots, training bases, and garrisons; shipbuilding and railroad stock manufacturing; and MRBM complexes)							
1	Polesk SAM Site A17A-5	54-50-40N 21-08-40E	UR 0109-6	SA-3, configuration undetermined			
2	Polesk SAM Site A17A-5	54-50-30N 21-08-45E	UR 0109-6	SA-3, configuration F			This installation has been negated as a SA-3 site. 3 of the 4 inverted launch positions were being graded over; however, the site configuration remains.
3	Kaliningrad SAM Site C10-2	54-50-10N 21-07-20E	UR 0109-6	SA-2, star			
4	Kaliningrad SAM Site C11-3	54-50-00N 21-05-00E	UR 0109-6	SA-3, configuration G			
5	Kaliningrad SAM Support Facility 2	54-50-50N 21-05-45E	UR 0109-6	Type I (rectangular)			
6	Kaliningrad SAM Site C11-2	54-50-50N 21-06-00E	UR 0109-6	SA-2, star			This site is precisely on the meridian between 2 WAC's and at various times in the past, it has been carried on both. Presumably, it was carried as item 21 on WAC 100.
B. USSR Western Border SAM Defenses (in defense of the western border of the USSR. Kalpeda-principal port of Lithuanian SSR with commercial and naval port facilities; Sovietek; Kaunas-major transportation center; Chernyakhovsk-major rail transportation, military center, and MRBM deployment area; Ordozo-large military training and supply base; Shekuchin Airfield; Prushany MRBM Complex; and Brest-strategic rail transloading point, service and repair facility, and military center)							
7	Palanga SAM Site A05-3	55-50-51N 21-06-00E	UR 0109-1	SA-3, configuration F			
8	Palanga SAM Site A05-2	55-50-45N 21-06-30E	UR 0109-1	SA-2, link			
9	Kalpeda SAM Site A17-6	55-50-43N 21-10-00E	UR 0109-1	SA-3, configuration G			
10	Kalpeda SAM Site A17-2	55-50-40N 21-10-00E	UR 0109-1	SA-2, star			
11	Sovetsk SAM Site B25-3	55-17-45N 21-00-10E	UR 0109-1	SA-3, configuration F			
12	Sovetsk SAM Site B25-3	55-17-45N 21-00-10E	UR 0109-1	SA-3, link			
13	Sovetsk MRBM Complex SAM Site B01-3	55-09-35N 21-35-00E	UR 0109-4	SA-3, configuration G			
14	Sovetsk MRBM Complex SAM Site A06-3	55-09-40N 21-35-00E	UR 0109-4	SA-3, configuration F			
15	Sovetsk SAM Support Facility	55-09-45N 21-35-00E	UR 0109-4	Type II (square)			
16	Nemun SAM Site A24-3	55-01-25N 21-50-50E	UR 0109-4	SA-3, configuration F			This facility was previously named Bagit SAM Site A14-3.
17	Chernyakhovsk SAM Site B21-3	54-20-15N 21-35-30E	UR 0109-11	SA-3, probable configuration F			
18	Chernyakhovsk SAM Site B21-2	54-20-20N 21-35-15E	UR 0109-11	SA-2, link			
19	Chernyakhovsk SAM Site B16-2	54-16-50N 21-09-10E	UR 0109-4	SA-2, star			
20	Chernyakhovsk SAM Site A30-2	54-24-35N 21-09-00E	UR 0109-4	SA-3, configuration F			
21	Marjampole SAM Site A16-2	54-30-50N 21-14-00E	UR 0109-4	SA-2, star			
22	Ordozo SAM Site A09-3	54-28-00N 21-20-00E	UR 0109-7	SA-2, link			
23	Lida MRBM Complex SAM Site C20-3	55-04-40N 21-00-00E	UR 0109-13	SA-2, probable link			
24	Lida MRBM Complex SAM Site C20-2	55-04-35N 21-04-15E	UR 0109-13	SA-3, configuration F			
25	Lida MRBM Complex SAM Site C20-1	55-04-30N 21-04-00E	UR 0109-13	SA-2, link			
26	Shekuchin SAM Support Facility	55-23-00N 21-09-00E	UR 0109-13	Type II (square)			
27	Shekuchin SAM Site A26-3	55-23-00N 21-06-00E	UR 0109-13	SA-2, link			
28	Volvoysk SAM Site A27-3	55-23-45N 21-07-00E	UR 0109-13	SA-3, configuration F			
29	Volvoysk SAM Site A26-2	55-16-10N 21-01-00E	UR 0109-17	SA-3, configuration F			This site has 3 additional large movements of unknown function associated with it.
30	Volvoysk SAM Site A26-1	55-16-00N 21-02-00E	UR 0109-17	SA-2, link			
31	Volvoysk SAM Site A26-4	55-10-10N 21-03-00E	UR 0109-17	SA-3, configuration F			
32	Volvoysk SAM Site B18-3	55-10-50N 21-03-00E	UR 0109-17	SA-2, configuration F			This site has 3 additional large movements of unknown function associated with it.
33	Volvoysk SAM Site B18-2	55-10-50N 21-03-00E	UR 0109-17	SA-2, link			
34	Prushany MRBM Complex SAM Site B08-3	55-10-00N 21-08-00E	UR 0109-13	SA-3, configuration F			

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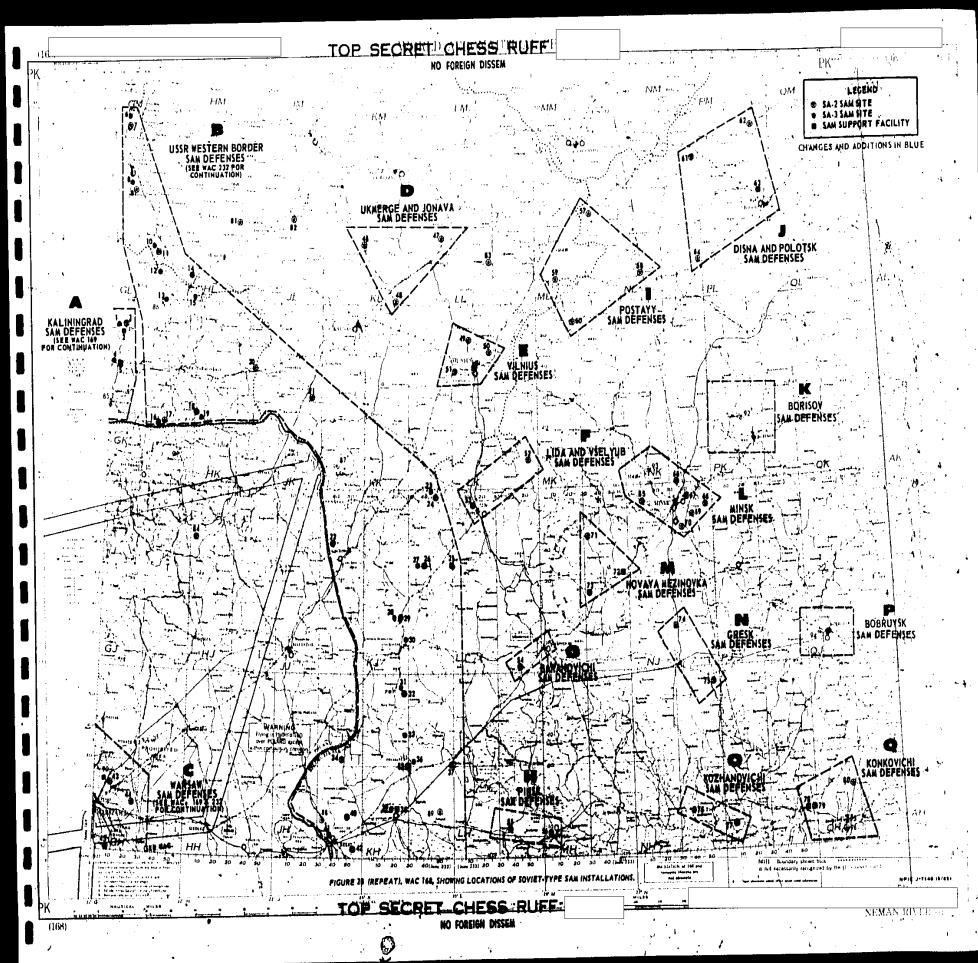
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Table 25. SAM Installations on WAC (Continued)

Table 23. SAM Installations (cont.)								
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears?	Mission & Date Installation Negated?	Remarks	
34	Prachay SAM Site C27-2	52-32-55N 24-40-20E	UR 0108-22	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.	
35	Prachay MRBM Complex SAM Site B10-2	52-30-00N 24-30-15E	UR 0108-22	SA-2, link				
36	Prachay MRBM Complex SAM Site B10-3	52-31-20N 24-31-00E	UR 0108-22	SA-3, configuration F				
37	Bereza SAM Support Facility	52-30-35N 24-50-10E	UR 0108-23	Type I (rectangular)				
38	Prachay SAM Support Facility, I	52-16-00N 24-30-50E	UR 0108-22	Type II (square)			This SAM site has an unrevetted site adjacent to it.	
39	Prachay MRBM Complex SAM Site B16-3	52-16-10N 24-20-00E	UR 0108-22	SA-3, configuration F				
40	Brest SAM Site A05-2	52-13-10N 25-40-30E	UR 0108-22	SA-2, link				
41	Brest SAM Support Facility, I	52-07-30N 25-37-20E	UR 0108-22	Type I (rectangular)				
42	Brest SAM Site A11-2	52-03-10N 25-33-20E	UR 0108-22	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.	
43	Svetitsk MRBM Complex SAM Site A07-2	55-00-30N 21-30-00E	UR 0108-6	SA-2, link				
44	Grodno SAM Site C16-2	53-07-40N 28-40-00E	UR 0108-12	SA-2, link				
45	Brest SAM Site A13-2	52-13-05N 25-32-20E	UR 0108-22	SA-2, configuration undetermined				
46	Bereza SAM Site B20-2	52-13-00N 24-50-40E	UR 0108-23	SA-2, configuration undetermined				
C Warsaw (Poland) SAM Defenses (in defense of the Polish capital; industrial, military, and governmental control center of Poland)								
47	Warsaw SAM Site B04-2	52-22-50N 21-11-00E	PO 0108-21	SA-2, fan			This site has 2 additional large revetments of unknown function associated with it.	
48	Warsaw SAM Site B09-2	52-16-20N 21-08-00E	PO 0108-21	SA-2, fan				
49	Warsaw SAM Site B10-2	52-01-20N 21-08-10E	PO 0108-21	SA-2, fan				
50	Warsaw SAM Support Facility 2	52-22-50N 21-03-45E	UR 0108-21	Type I (rectangular)				
D Ukraine and Jonava MRBM Complexes SAM Defenses (in defense of Ukraine and Jonava MRBM Complexes)								
51	Kovel SAM Site A01-2	55-19-30N 25-50-10E	UR 0108-6	SA-2, link			This site has 1 additional large revetment of unknown function associated with it.	
52	Ukraine SAM Site A04-2	55-21-20N 24-53-00E	UR 0108-6	SA-2, star				
53	Jonava SAM Site A13-2	55-01-45N 24-21-03E	UR 0108-7	SA-2, star				
E Vilnius SAM Defenses (in defense of Vilnius, capital of Lithuania SSR; major military and rail facilities, Radio Plant 555)								
54	Vilnius SAM Site A04-2	54-49-50N 25-12-30E	UR 0108-6	SA-2, link				This site has 3 additional large revetments of unknown function associated with it.
55	Vilnius SAM Site A06-2	54-44-10N 25-28-50E	UR 0108-6	SA-2, link				
56	Vilnius SAM Site A08-2	54-38-00N 25-02-00E	UR 0108-6	SA-2, link				
57	Vilnius SAM Support Facility, 0104-01267	54-38-20N 25-13-00E	UR 0108-6	Type undetermined (irregular)				
F Lida and Vozysk MRBM Complexes SAM Defenses (in defense of Lida and Vozysk MRBM Complexes)								
58	Vozysk MRBM Complex SAM Site C03-2	54-08-10N 25-34-40E	UR 0108-13	SA-2, link			This site has 3 additional large revetments of unknown function associated with it.	
59	Lida MRBM Complex SAM Site A08-2	53-54-00N 25-14-10E	UR 0108-13	SA-2, link				
G Baranovichi SAM Defenses (in defense of long-range bomber base with nuclear weapons storage site, and military facilities)								
60	Baranovichi SAM Site B24-2	53-01-30N 25-45-10E	UR 0108-16	SA-2, fan				This site has 3 additional large revetments of unknown function associated with it.
61	Baranovichi SAM Site B25-2	53-01-30N 25-45-10E	UR 0108-16	SA-2, fan				
62	Baranovichi SAM Site B26-2	53-01-30N 25-45-10E	UR 0108-16	SA-2, fan				
63	Baranovichi SAM Site B27-2	53-01-30N 25-45-10E	UR 0108-16	SA-2, fan				
H Pinsk MRBM Complex SAM Defenses (in defense of Pinsk MRBM Complex)								
64	Pinsk MRBM Complex SAM Site A23-2	52-09-30N 25-29-30E	UR 0108-23	SA-2, link			This site has 3 additional large revetments of unknown function associated with it.	
65	Pinsk MRBM Complex SAM Site B11-2	52-07-40N 25-08-30E	UR 0108-23	SA-2, link				
66	Pinsk MRBM Complex SAM Site B12-2	52-07-40N 25-08-30E	UR 0108-23	SA-2, link				
67	Pinsk MRBM Complex SAM Site B13-2	52-07-40N 25-08-30E	UR 0108-23	SA-2, link				

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Table 25. SAM Installations on WAC 108 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appared	Mission & Date Installation Negated	Remarks
I Postay MRBM Complex SAM Defenses (in defense of Postay MRBM Complex)							
57	Postay MRBM Complex SAM Site B31-2	55-26-00N 26-10-50E	UR 010-1	SA-2, link			
58	Postay MRBM Complex SAM Site B10-2	55-09-00N 27-14-00E	UR 010-9	SA-2, link			
59	Postay MRBM Complex SAM Site C27-2	55-07-00N 26-14-00E	UR 010-5	SA-2, link			
60	Postay MRBM Complex SAM Site C22-2	54-51-30N 26-36-10E	UR 010-9	SA-2, fan			
J Dnosa and Polotsk MRBM Complex SAM Defenses (in defense of Dnosa and Polotsk MRBM Complexes)							
61	Dnosa SAM Site A21-2	55-45-40N 27-55-50E	UR 010-14	SA-2, link			
62	Belokitichi MRBM Complex SAM Site B03-2	55-54-20N 26-36-20E	UR 010-5	SA-2, link			
63	Polotsk SAM Support Facility	55-26-35N 26-42-30E	UR 010-5	Type II (square)			
64	Polotsk SAM Site D21-2	55-12-38N 27-36-35E	UR 010-4	SA-2, link			
K Belarus SAM Defenses (in defense of Belarus: extensive military installations, transportation center, rail yards and shops, and light industry)							
92	Belarus SAM Site V12-2	54-20-00N 28-22-30E	UR 010-15	SA-2, configuration undetermined			
L Minsk SAM Defenses (in defense of major industrial and military center: radio, machine and tool, tractor, auto, housing plants and minor industries; Minsk/Machalishche long-range bomber base)							
65	Minsk SAM Site B28-2	55-54-50N 27-10-40E	UR 010-14	SA-2, link			
66	Minsk SAM Site A01-2	54-00-53N 27-24-20E	UR 010-14	SA-2, link			
67	Minsk SAM Support Facility	55-54-50N 27-10-40E	UR 010-14	Type I (rectangular)			
68	Minsk SAM Site B10-2	55-55-40N 27-55-10E	UR 010-14	SA-2, link			
69	Minsk SAM Site A12-2	55-49-50N 27-45-10E	UR 010-14	SA-2, link			
70	Minsk SAM Site A17-2	55-45-50N 27-46-00E	UR 010-14	SA-2, link			
71	Minsk SAM Site B12-2	54-05-00N 27-15-30E	UR 010-14	SA-2, link			
M Novaya Meziminka SAM Defenses (in defense of Novaya Meziminka Regional Military Storage Installation)							
71	Minsk SAM Site D20-2	55-45-50N 26-35-40E	UR 010-14	SA-2, fan			
72	Baranovichi SAM Support Facility	55-51-40N 26-36-40E	UR 010-19	Type II (square)			This facility was previously named Novaya Meziminka SAM Support Facility.
73	Baranovichi SAM Site C08-2	55-25-40N 26-35-40E	UR 010-14	SA-2, link			
N Grook MRBM Complex SAM Defenses (in defense of Grook MRBM Complex)							
74	Sierak SAM Site B03-2	55-15-30N 27-51-00N	UR 010-19	SA-2, link			
75	Grook SAM Site A15-2	55-55-40N 27-55-10E	UR 010-19	SA-2, link			This site is located in a military training area.
O Koshanovichi MRBM Complex SAM Defenses (in defense of Koshanovichi MRBM Complex)							
76	Koshanovichi SAM Site A18-2	55-15-30N 27-58-30E	UR 010-24	SA-2, link			
77	Koshanovichi SAM Site B18-2	55-07-00N 26-46-10E	UR 010-24	SA-2, link			
P Belyay SAM Defenses (in defense of Belyay area including a nuclear weapons storage site, a large military airfield, rail yards and shops, and numerous light industries)							
91	Belyay SAM Site A27-2	55-08-10N 29-06-40E	UR 010-20	SA-2, configuration undetermined			

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Table 25. SAM Installations on WAC 10R (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negotiated	Remarks
Q Kankovichi SAM Defenses (in defense of Kankovichi MBHM Complex)							
78	Kankovichi SAM Support Facility	52-11-20N 28-55-20E	UR 0108-25	Type II (square)			
79	Kankovichi SAM Site B2P-2	52-11-45N 28-57-00E	UR 0108-25	SA-2, link			
80	Kankovichi SAM Site A02-2	52-17-00N 29-21-00E	UR 0108-25	SA-2, link			
85	Kankovichi SAM Site A16-2	52-06-00N 29-25-00E	UR 0108-25	SA-2, configuration undetermined			
96	Kankovichi SAM Site A17-2	52-08-30N 29-10-50E	UR 0108-25	SA-2, configuration undetermined			This is a probable training site.
R Defensive Role Undetermined							
81	Tavris SAM Site B01-2	52-28-00N 27-29-50E	UR 0108-1	SA-2, link			
82	Ilavinski SAM Site A01-2	52-25-30N 27-08-00E	UR 0108-2	SA-2, link			
83	Vilnits SAM Site D02-2	52-13-15N 29-27-00E	UR 0108-3	SA-2, link			
84	Orayev SAM Site A14-2	52-13-45N 29-04-20E	PD 0108-11	SA-2, link			This is a probable training site.

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